FIGURE 711

CTCGCGCAAGCGGCGTGCGGTCCCGCGGCGCTGCAGTTGTGTCCAGCCGGTCACGGGGCGGCT**ATG**GCGGCCACG
TTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGGAGGAGGGGCGGAGG
GAGACGCCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGTGCGGCTCCTTCGAAGACAAACA
AAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAGTTTATAATTGCTATAGGAAATAATGCA
GTAGCATTTCTGTCATCATTTGTTATGAATTCAGGAGTCTGGGAGGAAGTTGGTTGTGCCAAACTCTGGAATGAA
TGGTGTAGAACAACAGACACTACACATCTGTCCTCCACAGAGGCTTTTTGTGTGTTTTATCATCTAAAATCCAAT
CCCTCGGTTTTTCTCTGTCAGTGCAGTTGCTATGTTGCAGAAGATCAACAGTATCAGTGGCTGGAAAAGGTTTTT
GGCTCTTGTCCAAGGAAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAAACCTCAGAA
TCCACCGGCAGCCTTCCTTCTCCTTTCCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTTGTCCA
TTGCTAGAACAACCGAATATAGTACACGACCTTCCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCCA
GCAATTCTGTACTTGTGTTATACTGATGTGATGAAATTAGACCTAATCACAGTGGAAGCTTTTAAGCCTATACTT
TCTACCAGAAGCTTGAAGGGTTTGGTTAAGAATATTCCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACA
AATGAGATTCAGAGTAACATTTATACA**TGA**TCTTAAACATTGTTTTGTAGTGTATATTACTTGTCCATTCCTTTA
AGGGGAGCAGCCTGCACTCTTTTGTAGATTACTTTTGGGGGATATATTTTGAGAATGATGAAACGGAATAAAATT
GTAAAAAACTAAAAAAAAAAAAAAAAAAAA

FIGURE 712

MAATFFGEVVKAPCRAGTEDEEEEEEGRRETPEDREVRLQLARKREVRLLRRQTKTSLEVSLLEKYPCSKFIIAI
GNNAVAFLSSFVMNSGVWEEVGCAKLWNEWCRTTDTTHLSSTEAFCVFYHLKSNPSVFLCQCSCYVAEDQQYQWL
EKVFGSCPRKNMQITILTCRHVTDYKTSESTGSLPSPFLRALKTQNFKDSACCPLLEQPNIVHDLPAAVLSYCQV
WKIPAILYLCYTDVMKLDLITVEAFKPILSTRSLKGLVKNIPQSTEILKKLMTTNEIQSNIYT

FIGURE 713

ACTCAGTGTTCGCGGGAGCCGCACCTACACCAGCCAACCCAGATCCCGAGGTCCGACAGCGCCCGGCCCAGATCC
CCACGCCTGCCAGGAGCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCCTTCGACC
CGAGCCCCGCGCCCTTTCCGGGACCCCTGCCCCGCGGGCAGCGCTGCCAACCTGCCGGCC**ATG**GAGACCCCGTCC
CAGCGGCGCGCCACCCGCAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTCGCCCACCCGCATCACCCGGCTGCAG
GAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGGCGGTCTACATCGACCGTGTGCGCTCGCTGGAAACGGAG
AACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCGCC
TACGAGGCCGAGCTCGGGGATGCCCGCAAGACCCTTGACTCAGTAGCCAAGGAGCGCGCCCGCCTGCAGCTGGAG
CTGAGCAAAGTGCGTGAGGAGTTTAAGGAGCTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTGCT
CAGGCTCGGCTGAAGGACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGAAG
CGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAG
AAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAACTGGAC
TTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGGAGATTGAC
AATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAACTGCGGGCCCAGCATGAGGACCAG
GTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGAGG
AACAGCAACCTGGTGGGGGCTGCCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTGCCCAG
CTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCGTGAG
CGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGCAG
CTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCTTG
GAGGGCGAGGAGGAGAGGCTACGCCTGTCCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCCTCTCAC
TCATCCCAGACACAGGGTGGGGGCAGCGTCACCAAAAAGCGCAAACTGGAGTCCACTGAGAGCCGCAGCAGCTTC
TCACAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGCGC
AACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGACT
TACCGGTTCCCACCAAAGTTCACCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCTGCAGGAGCTGGGGCCACC
CACAGCCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTCTC
ATCAACTCCACTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCGCTCAGTGACTGTGGTTGAGGACGACGAGGAT
GAGGATGGAGATGACCTGCTCCATCACCACCATGTGAGTGGTAGCCGCCGC**TGA**GGCCGAGCCTGCACTGGGGCC
ACCCAGCCAGGCCTGGGGGCAGCCTCTCCCCAGCCTCCCCGTGCCAAAAATCTTTTCATTAAAGAATGTTTGGAA
CTTT

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FIGURE 714

METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLETENAGLRLRITESEEVVSREVS
GIKAAYEAELGDARKTLDSVAKERARLQLELSKVREEFKELKARNTKKEGDLIAAQARLKDLEALLNSKEAALST
ALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNIYSEELRETKRRHETR
LVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAERNSNLVGAAHEELQQSRIRID
SLSAQLSQLQKQLAAKEAKLRDLEDSLARERDTSRRLLAEKEREMAEMRARMQQQLDEYQELLDIKLALDMEIHA
YRKLLEGEEERLRLSPSPTSQRSRGRASSHSSQTQGGGSVTKKRKLESTESRSSFSQHARTSGRVAVEEVDEEGK
FVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRFPPKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNTWGCGNS
LRTALINSTGEEVAMRKLVRSVTVVEDDEDEDGDDLLHHHHVSGSRR

FIGURE 715

CCAAGCCCATGAGGGCCGCGCGCCCGGCCGCCGGTGCTGACGAGACGGAGCTCCTGGCCCCCGAGGAGGAGCAGA
GGATCA**ATG**CGGTTCAAGAATCGATTCCAGCGGTTCATGAACCATCGAGCTCCAGCCAATGGCCGCTACAAGCCA
ACTTGCTATGAACATGCTGCTAACTGTTACACACACGCATTCCTCATTGTTCCGGCCATCGTGGGCAGTGCCCTC
CTCCATCGGCTGTCTGATGACTGCTGGGAAAAGATAACAGCATGGATTTATGGAATGGGACTCTGTGCCCTCTTC
ATCGCTTCTACAGTATTTCACATTGTATCATGGAAAAAGAGCCACTTAAGGACAGCGGAGCATTGTTTTCACATG
TGTGATAGAATGGTTATCTATTTCTTCATTGCTGCTTCTTATGCTCCATGGTTAAATCTTCGTGAACTTGGACCC
CTGGCATCTCATATGCGTTGGTTTATCTGGCTCATGGCAGCTGGAGGAACCATTTATGTATTTCTCTACCATGAA
AAATATAAGGTGGTTGAACTCTTTTTCTATCTCACAATGGGATTCTCTCCAGCCTTGGTGGTGACATCAATGAAC
AACACCGATGGACTTCAGGAACTTGCCTGTGGGGGCTTAATTTATTGCTTGGGAGTTGTGTTCTTCAAGAGTGAT
GGCATCATTCCATTTGCCCACGCCATCTGGCACCTGTTTGTGGCCACGGCAGCTGCAGTGCATTACTACGCCATT
TGGAAATACCTTTACCGAAGTCCTACGGACTTTATGCGGCATTTA**TGA**CCAATCTGTACTAATTCTCCAAACCAG
TATTATTTCAATTATGGCACTTGGGAGTGGGGTGAGAGCTAAACATTGCACAGGGCAAAGAAAAAAATAACTGC
ACTGACTTTATATCTTTTGAATATAATTACTGTGAAAGTATAAAGGCTGTGTTCTGGAATTTTCTGCCTCACAGC
AAATAAATAAGGTAGTGAATTAATTATTCATTCCATTCCACTATCATGAAGGACTCTGAATAGACTTGGCCAACT
GATGTTTACAAACCAGACTTTTATATTTTAATTTTACAGATTTACTACATGATTTTTCTAAATTACTATGTCAG
GTTGTAAAAGTCAGTGCAATAACAAACCTTCCTTTTTAAGAAGAAAATTGTTTCTATTACTTTCCCATTCACTAG
GTAAAGAATCATGGACAGAACTTACACTACTTTTTACCATGTTTCATCTTGGCATAACATGGTTCTTTTTTAAAT
AGAAACTTTAGTTTTTTGTAAATTTTTAAAAAAATATTTCATTGATATGCATCTCTGCAGGTCCTCATTCATGTT
GTAAATTTTTGGAGCAAGCAGTCAACATTCCACAAACGAACAAACATTATACCTCTTCTGATAGTTTTATTAAGC
ATGGAGAAATTGCCAATTTTTAAAAACTGCAGTTTTCCAAACTTTTCTGCCAACCTCTTACTCTGAATTCAGTGC
TGCTTTGGGACATATACTTGACCTAGCTTGGTTTACCAGTGATGGAAAAGTATTTTGATATCATTAACTTTTTCA
AAAGATCCAACTTTTTCTCTATGCCTTTGCCACATTCTCTTCAGGGTCTCTTTCCACAGCGGATAAATGTTTTTT
CTGTATTATGACAGTATTGTTGTGATGGCCATCTGCTGGAAACTCCTGAAGAGCATTATGTATTACAGTGAGCAG
TTGTATTGCCTGTTTGGTGCCCAATGGTTAAGTCATTGTCACTTAGCTTTATATTGTCAGTTTGATATTTATTTT
AAATTGTGGAACTAGATGCATAAATTCACATTTCTGCCTTTCCTTTGCATCTTCTCATATATTGTGTTTTTTTTT
TTTTCCTAGAAAAAATATTTAAAGCATTGTTTGACAGGTAGAAACTCATGTATCTGTAGTCCATGAGTTATATC
CTGGCTCAGTGGAGTGATATTTATGTATTATTTTTACTTTTCTCTCAGTGTCTTATATTAAGATTAACATGTTGT
TAATAGTTGCTTTGTTGATTAATCTCTCTTGTTGGTGTTTTAATAAATGAAATAGGCTTGCCTTTAGATCGGGTG
CTGATATTGCCTGTTTCCTAGTAATGGGCTGATCAAATGATCAGTGGAATTCTTGGTTTGATGATAACCTTATTA
ATTGAAATTTTTTACTGATGTGGCTTTAAAAGAGGTTTATTTGTATATGTTTAGAACTCTCTGATTTTGATGAA
TTATATGGGAGTGAGAAACAGAAGAAGTGGTATTTGCTGGCGAGTTAAATAGGCAAGGTACCCAGTGATAACACC
AACCAAACCACTCCTATCTGCATGATTCTGAACATCTGGATGCCTGTTGTTTTACTGTGTATATTTTATTTTTAA
TATATTAACTTTGTGGATTCATTTAAGGTCTACTCAAAAGTAACACTGTCCAAACCACTAATATGTATGTAAAAA
TTGTGCTGTATACTACAATAAAGTTGTTACTTGGATTTGTTCCAAAAAAAAAAAAAAA

FIGURE 716

MRFKNRFQRFMNHRAPANGRYKPTCYEHAANCYTHAFLIVPAIVGSALLHRLSDDCWEKITAWIYGMGLCALFIA
STVFHIVSWKKSHLRTAEHCFHMCDRMVIYFFIAASYAPWLNLRELGPLASHMRWFIWLMAAGGTIYVFLYHEKY
KVVELFFYLTMGFSPALVVTSMNNTDGLQELACGGLIYCLGVVFFKSDGIIPFAHAIWHLFVATAAAVHYYAIWK
YLYRSPTDFMRHL

FIGURE 717

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CTGTCGCCCTGCACGGTGACCCGCGTGTGCGAGGCCTTCATGGCCAGGATCCGGGTGGAGAGGCGCTGCTGACAC
CGCCGCCACACCGCCGCCACACCGCCGCTGCCTCAGTCATGCCGAAGCACGAGTTCTCTGTGGACATGACCTGTG
GAGGCTGTGCTGAAGCTGTCTCTCGGGTCCTCAATAAGCTTGGAGGAGTTAAGTATGACATTGACCTGCCCAACA
AGAAGGTCTGCATTGAATCTGAGCACAGCATGGACACTCTGCTTGCAACCCTGAAGAAAACAGGAAAGACTGTTT
CCTACCTTGGCCTTGAGTAGCAGGGGCCTGGTCCCCACAGCCCACAGGATGGACCAAAGGGGGCAGGATGCTGAT
CCTCCCGCTGGCTTCCAGACAGACCTGGGACTTGGCAGTCATGCCGGGTGATCGTGTTCCTGCGGAGACCCTCAG
TTGTCCTATTCCTTCCTAGCTTCCCTGCAATAAATCAAGCTGCTTTTGTTGG
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FIGURE 718

MPKHEFSVDMTCGGCAEAVSRVLNKLGGVKYDIDLPNKKVCIESEHSMDTLLATLKKTGKTVSYLGLE

FIGURE 719

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GTCTTGACGTGAGCTAGCTGGCATGGCGGCCTGCATTGCAGCGGGGCACTGGGCTGCAATGGGCCTAGGCCGGAG
TTTCCAAGCCGCCAGGACTCTGCTCCCCCGCCGGCCTCTATCGCCTGCAGGGTCCACGCGGGGCCTGTCCGGCA
GCAGAGCACTGGGCCTTCCGAGCCCGGTGCGTTCCAACCGCCGCCGAAACCGGTCATCGTGGACAAGCACCGCCC
CGTGGAACCGGAACGCAGGTTCTTGAGTCCTGAATTCATTCCTCGAAGGGGAAGAACAGATCCTCTGAAATTTCA
AATAGAAAGAAAAGATATGTTAGAAAGGAGAAAAGTACTCCACATTCCAGAGTTCTATGTTGGAAGTATTCTTCG
TGTTACTACAGCTGACCCATATGCCAGTGGAAAAATCAGCCAGTTTCTGGGGATTTGCATTCAGAGATCAGGAAG
AGGACTTGGAGCTACTTTCATCCTTAGGAATGTTATCGAAGGACAAGGTGTCGAGATTTGCTTTGAACTTTATAA
TCCTCGGGTCCAGGAGATTCAGGTGGTCAAATTAGAGAAACGGCTGGATGATAGCTTGCTATACTTACGAGATGC
CCTTCCTGAATATAGCACTTTTGATGTGAATATGAAGCCAGTAGTACAAGAGCCTAACCAAAAAGTTCCTGTTAA
TGAGCTGAAAGTAAAAATGAAGCCTAAGCCCTGGTCTAAACGCTGGGAACGTCCAAATTTTAATATTAAAGGAAT
CAGATTTGATCTTTGTTTAACTGAACAGCAAATGAAAGAAGCTCAGAAGTGGAATCAGCCATGGCTTGAATTTGA
TATGATGAGGGAATATGATACTTCAAAAATTGAAGCTGCAATATGGAAGGAAATTGAAGCGTCGAAAAGGTCTTG
ATTCTGAGAATGAATTTGGTTAGTTGCAGAAGATACATTGGCTCTAAGAGGATATATTTTGAGACCAATTTAATT
TCATTTATAAGAACATAGTAATTAAGTGAACTAAGCATTCATTGTTTTATTAATACTTTTTTTCTAAAATAAAAC
TTGTACACCAGTTTATTACTCTAAAAAGAGAATTACACATGCCAAATGGACCAATGTCCATTGCTTATTGGAGG
CAAAGCTACAATAGAAGTCAGAGCATCACCAGAATGGTCTTTAATGAGCATGGAACCTGAGCAAAGGGAATAGGT
GGGATGAATTTTTTTTTTAATTGTGAAACAATTCATAAGCACAATATGATTTACAGAATAATAAACATTCATGTA
CCCACTATCAGGTTAAGAAATAGAACATTTATTAATATGTAGGAATGTTAAGAAATAAACATTTAATAAGA
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FIGURE 720

MGLGRSFQAARTLLPPPASIACRVHAGPVRQQSTGPSEPGAFQPPPKPVIVDKHRPVEPERRFLSPEFIPRRGRT
DPLKFQIERKDMLERRKVLHIPEFYVGSILRVTTADPYASGKISQFLGICIQRSGRGLGATFILRNVIEGQGVEI
CFELYNPRVQEIQVVKLEKRLDDSLLYLRDALPEYSTFDVNMKPVVQEPNQKVPVNELKVKMKPKPWSKRWERPN
FNIKGIRFDLCLTEQQMKEAQKWNQPWLEFDMMREYDTSKIEAAIWKEIEASKRS

FIGURE 721

GTGGGAGGGAGGCTCGGCGCTCAGGAAGC**ATG**GCACTCTGGCGGGCATACCAGCGGGCCCTGGCCGCTCACCCGT
GGAAAGTACAGGTCCTGACAGCTGGGTCCCTGATGGGCCTGGGTGACATTATCTCACAGCAGCTGGTGGAGAGGC
GGGGTCTGCAGGAACACCAGAGAGGCCGGACTCTGACCATGGTGTCCCTGGGCTGTGGCTTTGTGGGCCCTGTGG
TAGGAGGCTGGTACAAGGTTTTGGATCGGTTCATCCCTGGCACCACCAAAGTGGATGCACTGAAGAAGATGTTGT
TGGATCAGGGGGGCTTTGCCCCGTGTTTTCTAGGCTGCTTTCTCCCACTGGTAGGGGCACTTAATGGACTGTCAG
CCCAGGACAACTGGGCCAAACTACAGCGGGATTATCCTGATGCCCTTATCACCAACTACTATCTATGGCCTGCTG
TGCAGTTAGCCAACTTCTACCTGGTCCCCCTTCATTACAGGTTGGCCGTTGTCCAATGTGTTGCTGTTATCTGGA
ACTCCTACCTGTCCTGGAAGGCACATCGGCTC**TAA**GCCTGCCTCACTCCATCGTTTCCACCTTGCAGTGATGCAG
CTTGACCCTGGAACGGTCAGACAACCTCCTCAAAGTGGGCATACCAGTTTCCACGGGGTTGGGTTGCCGGTCAGA
GCTTAAGAGGACTAGCACCTGCAATGCCCTCTTCACTCTAAATGTACACTGACTGCTTTAGAGCCCTTGATAATA
GTCTTATTCCCACCACATACTAGGCACTCCATAAATATCTGTTGAACCTTCATGACCTTATCAACTTTACACCCA
TATCCAGCAAATGCCACTCATCCCCACTCTTCATAGACACATTTGTTACTCTAACCCTGCCTAGGCTTCTTGTAG
CTCCAGCTCTTTAGAGACTCCGGGAACCCTTTATATGGTGCCTCAGTAAATATGTTATTAAATATGTAATCCGG

FIGURE 722

MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIISQQLVERRGLQEHQRGRTLTMVSLGCGFVGPVVGGWYKVLDR
FIPGTTKVDALKKMLLDQGGFAPCFLGCFLPLVGALNGLSAQDNWAKLQRDYPDALITNYYLWPAVQLANFYLVP
LHYRLAVVQCVAVIWNSYLSWKAHRL

FIGURE 723A

AAGTGACCCAGGGAGACAAACACTTGGAGATACTTGGGGCTGAGTTTGAGCAAGACTCCCTAACCTGTGTCTGGA
CAAGTCTGATGTCCTGTGTGGCCCAAGAAGAACTGACCCCGTGTCTGGAGCTCCCACCGTTATTGCATCCCTGCT
GTGGCTCACCTGCTGCTGTCTCCAGGAGCCCCTGAGAAGATTTGCCTCCTCTCCCCTGCTAAGCTCCAGGTCCTG
AGATTGAATTAGGGGCTGGAGCTCACTGCACTCCAGCAGTC**ATG**GGACCCAGGATAGGGCCAGCGGGTGAGGTAC
CCCAGGTACCAGACAAGGAAACCAAAGCCACAATGGGCACAGAAAACACACCTGGAGGCAAAGCCAGCCCAGACC
CTCAGGACGTGCGGCCAAGTGTGTTCCATAACATCAAGCTGTTCGTTCTGTGCCACAGCCTGCTGCAGCTGGCGC
AGCTCATGATCTCCGGCTACCTAAAGAGCTCCATCTCCACAGTGGAGAAGCGCTTCGGCCTCTCCAGCCAGACGT
CGGGGCTGCTGGCCTCCTTCAACGAGGTGGGGAACACAGCCTTGATTGTGTTTGTGAGCTATTTTGGCAGCCGGG
TGCACCGACCCCGAATGATTGGCTATGGGGCTATCCTTGTGGCCCTGGCGGGCCTGCTCATGACTCTCCCGCACT
TCATCTCGGAGCCATACCGCTACGACAACACCAGCCCTGAGGATATGCCACAGGACTTCAAGGCTTCCCTGTGCC
TGCCCACAACCTCGGCCCCAGCCTCGGCCCCCTCCAATGGCAACTGCTCAAGCTACACAGAAACCCAGCATCTGA
GTGTGGTGGGGATCATGTTCGTGGCACAGACCCTGCTGGGCGTGGGCGGGGTGCCCATTCAGCCCTTTGGCATCT
CCTACATCGATGACTTTGCCCACAACAGCAACTCGCCCCTCTACCTCGGGATCCTGTTTGCAGTGACCATGATGG
GGCCAGGCCTGGCCTTTGGGCTGGGCAGCCTCATGCTGCGCCTTTATGTGGACATTAACCAGATGCCAGAAGGTG
GTATCAGCCTGACCATAAAGGACCCCCGATGGGTGGGTGCCTGGTGGCTGGGTTTCCTCATCGCTGCCGGTGCAG
TGGCCCTGGCTGCCATCCCCTACTTCTTCTTCCCCAAGGAAATGCCCAAGGAAAAACGTGAGCTTCAGTTTCGGC
GAAAGGTCTTAGCAGTCACAGACTCACCTGCCAGGAAGGGCAAGGACTCTCCCTCTAAGCAGAGCCCTGGGGAGT
CCACGAAGAAGCAGGATGGCCTAGTCCAGATTGCACCAAACCTGACTGTGATCCAGTTCATTAAAGTCTTCCCCA
GGGTGCTGCTGCAGACCCTACGCCACCCCATCTTCCTGCTGGTGGTCCTGTCCCAGGTATGCTTGTCATCCATGG
CTGCGGGCATGGCCACCTTCCTGCCCAAGTTCCTGGAGCGCCAGTTTTCCATCACAGCCTCCTACGCCAACCTGC
TCATCGGCTGCCTCTCCTTCCTTCGGTCATCGTGGGCATCGTGGTGGGTGGCGTCCTGGTCAAGCGGCTCCACC
TGGGCCCTGTGGGATGCGGTGCCCTTTGCCTGCTGGGGATGCTGCTGTGCCTCTTCTTCAGCCTGCCGCTCTTCT
TTATCGGCTGCTCCAGCCACCAGATTGCGGGCATCACACACCAGACCAGTGCCCACCCTGGGCTGGAGCTGTCTC
CAAGCTGCATGGAGGCCTGCTCCTGCCCATTGGACGGCTTTAACCCTGTCTGCGACCCCAGCACTCGTGTGGAAT
ACATCACACCCTGCCACGCAGGCTGCTCAAGCTGGGTGGTCCAGGATGCTCTGGACAACAGCCAGGTTTTCTACA
CCAACTGCAGCTGCGTGGTGGAGGGCAACCCCGTGCTGGCAGGATCCTGCGACTCAACGTGCAGCCATCTGGTGG
TGCCCTTCCTGCTCCTGGTCAGCCTGGGCTCGGCCCTGGCCTGTCTCACCCACACACCCTCCTTCATGCTCATCC
TAAGAGGAGTGAAGAAAGAAGACAAGACTTTGGCTGTGGGCATCCAGTTCATGTTCCTGAGGATTTTGGCCTGGA
TGCCCAGCCCCGTGATCCACGGCAGCGCCATCGACACCACCTGTGTGCACTGGGCCCTGAGCTGTGGGCGTCGAG
CTGTCTGTCGCTACTACAATAATGACCTGCTCCGAAACCGGTTCATCGGCCTCCAGTTCTTCTTCAAAACAGGTT
CTGTGATCTGCTTCGCCTTAGTTTTGGCTGTCCTGAGGCAGCAGGACAAAGAGGCAAGGACCAAAGAGAGCAGAT
CCAGCCCTGCCGTAGAGCAGCAATTGCTAGTGTCGGGGCCAGGGAAGAAGCCAGAGGATTCCCGAGTG**TGA**GCTG
TCTTGGGGCCCCACCTGGCCAAGAGTAGCAGCCACAGCAGTACCTCCTCTGAGTCCTTTGCCCAAGATTGGGTGT
CAAGAGCCCTGTGTTCCATTCTGGCTCCTCCACTAAATTGCTGTGTGACTTCAGGCAAGACATTGATCCTCTCTC
AGCCTTTGCTTGCTAGTCTGAACCAAAGAGTTGTTTGGGCATTTGCTGTGTTGGCCATTTCTGGAGCAAGAGGGT
CTTCTTCCTCCTTCCCCCAGCCAGCCAGCTGTCCTGGGGCCAGGCTTTCCTGGGTGGAAAGAAGTATACCTTTCC
CTGGGGCCCTAGGATAGCAAAGTGAGCCATAGTGGGCCAGGCTGCCCTCCATGCTGGGCCCCAGCCCAGGTCTGC
ACTCGCCTGGATCACCTTCTTTGAGCCTTAGCCATCTCCTGTCAGGTAGGAATGAACTTGCCAGCCTTCAGGCTC
GTTCAGCTATGACCATCTGTGCGGTCAGGGTACACTCAGCTCTCCTCCCCAACTCCAGCAGCCTTTAAGAAGTGT
CCCTTTGGCGCCCCCTGGAGGCAGAGCACTGAGCTGGACCCTGGGTAGACTCCCACAGGGAGGACGGAGCTGGCC
TCAGGAGTGGGACACCCAGACTTGGCAGGGCCTTCAAGAGGCCTGTGTGGGGCCCCAGGAATCCTTAGCTGAAG
CGGGGAGACTCACTCTCCATCTCAGGAAATTCTAGCCCTTGCCCTCAGGGAGCCACGGTTGAGGGTGAGGCCCAA
CACCTGCCTTAGGGCCCTGGGTGGGCAAGTCTGGGCCCTGGGTAGGGAGGGAGACTCAGGCCCACACTTGGGTA
TTTTCTAATTTCAGACAAACACACACTCAGCGCGCACTCACTGATTCCTACACATTGCCAAGATTTCACACATGT
GACCAGGGGCCACCAAAGTCCCTGTGACCTTTGTGACTAGGATCCTAATTTCTCTATTTTCTCCTGGGTGCCTGG
GTCTGTGTCACCTGGGGCAGTGTGGATAATGTTTAGTTCTGTGACACTGTTTTTTGGGGGTGGCACCTGGTTCTC
CGATGCCTGGGCTGGTGTCAGGCCCAGGACTGTAGTGCTGGGAGCAGTAAAGCTCAGCTCTGTGTAATGAGTGAT
GCTATGGCTTGCTCGTGTCTTATGATCCAATCCTTTTCTACATCAGCCCTTGTTTTGTTTTATGGCTAGTCTTAT

FIGURE 723B

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CTGGCCTGGTTATTTCCTTGCGGGGAGGAGAGGGTTTGCTAATCTGCTCCCAGCCCAACCTATTACCACCCCACC
TCGCTGGGACCTACTGCTCGGGAGGCAGCAGACAGGGAGCCACCAGCAGTGGCTTCCTGGCCCTGTGCTGGGGGT
GGGGGGAAGCTGGGGGCACATGTGGCCCTTGCCTTCTGAGCAGCTCCCAGTGCCAGGGCTTTGAGACTTTCCCAC
ATGATAAAAGAAAAGGGAGGTACAGAAGTTCCAATTCCCTTTTTATTTTGCTGGTTGGTATCTGTAAATGTTTAA
TAAATATCTGAGCATGTATCTATCAACGCCAAGAATTTCAAAGTCTCCTTCAACAATATGAGGCTTTTAGGATGT
TTATATTCCTTCATCCCTCTTGTTTCCCAGGTTTTGCAGGGAAAAAAAGTCTGGAATTATAGATACAGCTTATTA
TTAAATTTGTTCTTGCAT
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FIGURE 724

MGPRIGPAGEVPQVPDKETKATMGTENTPGGKASPDPQDVRPSVFHNIKLFVLCHSLLQLAQLMISGYLKSSIST
VEKRFGLSSQTSGLLASFNEVGNTALIVFVSYFGSRVHRPRMIGYGAILVALAGLLMTLPHFISEPYRYDNTSPE
DMPQDFKASLCLPTTSAPASAPSNGNCSSYTETQHLSVVGIMFVAQTLLGVGGVPIQPFGISYIDDFAHNSNSPL
YLGILFAVTMMGPGLAFGLGSLMLRLYVDINQMPEGGISLTIKDPRWVGAWWLGFLIAAGAVALAAIPYFFFPKE
MPKEKRELQFRRKVLAVTDSPARKGKDSPSKQSPGESTKKQDGLVQIAPNLTVIQFIKVFPRVLLQTLRHPIFLL
VVLSQVCLSSMAAGMATFLPKFLERQFSITASYANLLIGCLSFPSVIVGIVVGGVLVKRLHLGPVGCGALCLLGM
LLCLFFSLPLFFIGCSSHQIAGITHQTSAHPGLELSPSCMEACSCPLDGFNPVCDPSTRVEYITPCHAGCSSWVV
QDALDNSQVFYTNCSCVVEGNPVLAGSCDSTCSHLVVPFLLLVSLGSALACLTHTPSFMLILRGVKKEDKTLAVG
IQFMFLRILAWMPSPVIHGSAIDTTCVHWALSCGRRAVCRYYNNDLLRNRFIGLQFFFKTGSVICFALVLAVLRQ
QDKEARTKESRSSPAVEQQLLVSGPGKKPEDSRV

FIGURE 725A

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GTAATTGCGAGCGAGAGTGAGTGGGGCCGGGACCCGCAGAGCCGAGCCGACCCTTCTCTCCCGGGCTGCGGCAGG
GCAGGGCGGGGAGCTCCGCGCACCAACAGAGCCGGTTCTCAGGGCGCTTTGCTCCTTGTTTTTTCCCCGGTTCTG
TTTTCTCCCCTTCTCCGGAAGGCTTGTCAAGGGGTAGGAGAAAGAGACGCAAACACAAAAGTGGAAAACAGTTAA
TGACCAGCCACGGCGTCCCTGCTGTGAGCTCTGGCCGCTGCCTTCCAGGGCTCCCGAGCCACACGCTGGGGGTGC
TGGCTGAGGGAACATGGCTTGTTGGCCTCAGCTGAGGTTGCTGCTGTGGAAGAACCTCACTTTCAGAAGAAGACA
AACATGTCAGCTGCTGCTGGAAGTGGCCTGGCCTCTATTTATCTTCCTGATCCTGATCTCTGTTCGGCTGAGCTA
CCCACCCTATGAACAACATGAATGCCATTTTCCAAATAAAGCC**ATG**CCCTCTGCAGGAACACTTCCTTGGGTTCA
GGGGATTATCTGTAATGCCAACAACCCCTGTTTCCGTTACCCGACTCCTGGGGAGGCTCCCGGAGTTGTTGGAAA
CTTTAACAAATCCATTGTGGCTCGCCTGTTCTCAGATGCTCGGAGGCTTCTTTTATACAGCCAGAAAGACACCAG
CATGAAGGACATGCGCAAAGTTCTGAGAACATTACAGCAGATCAAGAAATCCAGCTCAAACTTGAAGCTTCAAGA
TTTCCTGGTGGACAATGAAACCTTCTCTGGGTTCCTGTATCACAACCTCTCTCTCCCAAAGTCTACTGTGGACAA
GATGCTGAGGGCTGATGTCATTCTCCACAAGGTATTTTTGCAAGGCTACCAGTTACATTTGACAAGTCTGTGCAA
TGGATCAAAATCAGAAGAGATGATTCAACTTGGTGACCAAGAAGTTTCTGAGCTTTGTGGCCTACCAAGGGAGAA
ACTGGCTGCAGCAGAGCGAGTACTTCGTTCCAACATGGACATCCTGAAGCCAATCCTGAGAACACTAAACTCTAC
ATCTCCCTTCCCGAGCAAGGAGCTGGCTGAAGCCACAAAAACATTGCTGCATAGTCTTGGGACTCTGGCCCAGGA
GCTGTTCAGCATGAGAAGCTGGAGTGACATGCGACAGGAGGTGATGTTTCTGACCAATGTGAACAGCTCCAGCTC
CTCCACCCAAATCTACCAGGCTGTGTCTCGTATTGTCTGCGGGCATCCCGAGGGAGGGGGGCTGAAGATCAAGTC
TCTCAACTGGTATGAGGACAACAACTACAAAGCCCTCTTTGGAGGCAATGGCACTGAGGAAGATGCTGAAACCTT
CTATGACAACTCTACAACTCCTTACTGCAATGATTTGATGAAGAATTTGGAGTCTAGTCCTCTTTCCCGCATTAT
CTGGAAAGCTCTGAAGCCGCTGCTCGTTGGGAAGATCCTGTATACACCTGACACTCCAGCCACAAGGCAGGTCAT
GGCTGAGGTGAACAAGACCTTCCAGGAACTGGCTGTGTTCCATGATCTGGAAGGCATGTGGGAGGAACTCAGCCC
CAAGATCTGGACCTTCATGGAGAACAGCCAAGAAATGGACCTTGTCCGGATGCTGTTGGACAGCAGGGACAATGA
CCACTTTTGGGAACAGCAGTTGGATGGCTTAGATTGGACAGCCCAAGACATCGTGGCGTTTTTGGCCAAGCACCC
AGAGGATGTCCAGTCCAGTAATGGTTCTGTGTACACCTGGAGAGAAGCTTTCAACGAGACTAACCAGGCAATCCG
GACCATATCTCGCTTCATGGAGTGTGTCAACCTGAACAAGCTAGAACCCATAGCAACAGAAGTCTGGCTCATCAA
CAAGTCCATGGAGCTGCTGGATGAGAGGAAGTTCTGGGCTGGTATTGTGTTCACTGGAATTACTCCAGGCAGCAT
TGAGCTGCCCCATCATGTCAAGTACAAGATCCGAATGGACATTGACAATGTGGAGAGGACAAATAAAATCAAGGA
TGGGTACTGGGACCCTGGTCCTCGAGCTGACCCCTTTGAGGACATGCGGTACGTCTGGGGGGGCTTCGCCTACTT
GCAGGATGTGGTGGAGCAGGCAATCATCAGGGTGCTGACGGGCACCGAGAAGAAAACTGGTGTCTATATGCAACA
GATGCCCTATCCCTGTTACGTTGATGACATCTTTCTGCGGGTGATGAGCCGGTCAATGCCCCTCTTCATGACGCT
GGCCTGGATTTACTCAGTGGCTGTGATCATCAAGGGCATCGTGTATGAGAAGGAGGCACGGCTGAAAGAGACCAT
GCGGATCATGGGCCTGGACAACAGCATCCTCTGGTTTAGCTGGTTCATTAGTAGCCTCATTCCTCTTCTTGTGAG
CGCTGGCCTGCTAGTGGTCATCCTGAAGTTAGGAAACCTGCTGCCCTACAGTGATCCCAGCGTGGTGTTTGTCTT
CCTGTCCGTGTTTGCTGTGGTGACAATCCTGCAGTGCTTCCTGATTAGCACACTCTTCTCCAGAGCCAACCTGGC
AGCAGCCTGTGGGGGCATCATCTACTTCACGCTGTACCTGCCCTACGTCCTGTGTGTGGCATGGCAGGACTACGT
GGGCTTCACACTCAAGATCTTCGCTAGCCTGCTGTCTCCTGTGGCTTTTGGGTTTGGCTGTGAGTACTTTGCCCT
TTTTGAGGAGCAGGGCATTGGAGTGCAGTGGGACAACCTGTTTGAGAGTCCTGTGGAGGAAGATGGCTTCAATCT
CACCACTTCGGTCTCCATGATGCTGTTTGACACCTTCCTCTATGGGGTGATGACCTGGTACATTGAGGCTGTCTT
TCCAGGCCAGTACGGAATTCCCAGGCCCTGGTATTTTCCTTGCACCAAGTCCTACTGGTTTGGCGAGGAAAGTGA
TGAGAAGAGCCACCCTGGTTCCAACCAGAAGAGAATATCAGAAATCTGCATGGAGGAGGAACCCACCCACTTGAA
GCTGGGCGTGTCCATTCAGAACCTGGTAAAAGTCTACCGAGATGGGATGAAGGTGGCTGTCGATGGCCTGGCACT
GAATTTTTATGAGGGCCAGATCACCTCCTTCCTGGGCCACAATGGAGCGGGGAAGACGACCACCATGTCAATCCT
GACCGGGTTGTTCCCCCCGACCTCGGGCACCGCCTACATCCTGGGAAAGACATTCGCTCTGAGATGAGCACCAT
CCGGCAGAACCTGGGGGTCTGTCCCCAGCATAACGTGCTGTTTGACATGCTGACTGTCGAAGAACACATCTGGTT
CTATGCCCGCTTGAAAGGGCTCTCTGAGAAGCACGTGAAGGCGGAGATGGAGCAGATGGCCCTGGATGTTGGTTT
GCCATCAAGCAAGCTGAAAAGCAAAACAAGCCAGCTGTCAGGTGGAATGCAGAGAAAGCTATCTGTGGCCTTGGC
CTTTGTCGGGGGATCTAAGGTTGTCATTCTGGATGAACCCACAGCTGGTGTGGACCCTTACTCCCGCAGGGGAAT
ATGGGAGCTGCTGCTGAAATACCGACAAGGCCGCACCATTATTCTCTCTACACACCACATGGATGAAGCGGACGT
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FIGURE 725B

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CCTGGGGGACAGGATTGCCATCATCTCCCATGGGAAGCTGTGCTGTGTGGGCTCCTCCCTGTTTCTGAAGAACCA
GCTGGGAACAGGCTACTACCTGACCTTGGTCAAGAAAGATGTGGAATCCTCCCTCAGTTCCTGCAGAAACAGTAG
TAGCACTGTGTCATACCTGAAAAAGGAGGACAGTGTTTCTCAGAGCAGTTCTGATGCTGGCCTGGGCAGCGACCA
TGAGAGTGACACGCTGACCATCGATGTCTCTGCTATCTCCAACCTCATCAGGAAGCATGTGTCTGAAGCCCGGCT
GGTGGAAGACATAGGGCATGAGCTGACCTATGTGCTGCCATATGAAGCTGCTAAGGAGGGAGCCTTTGTGGAACT
CTTTCATGAGATTGATGACCGGCTCTCAGACCTGGGCATTTCTAGTTATGGCATCTCAGAGACGACCCTGGAAGA
AATATTCCTCAAGGTGGCCGAAGAGAGTGGGGTGGATGCTGAGACCTCAGATGGTACCTTGCCAGCAAGACGAAA
CAGGCGGGCCTTCGGGGACAAGCAGAGCTGTCTTCGCCCGTTCACTGAAGATGATGCTGCTGATCCAAATGATTC-
TGACATAGACCCAGAATCCAGAGAGACAGACTTGCTCAGTGGGATGGATGGCAAAGGGTCCTACCAGGTGAAAGG
CTGGAAACTTACACAGCAACAGTTTGTGGCCCTTTTGTGGAAGAGACTGCTAATTGCCAGACGGAGTCGGAAAGG
ATTTTTTGCTCAGATTGTCTTGCCAGCTGTGTTTGTCTGCATTGCCCTTGTGTTCAGCCTGATCGTGCCACCCTT
TGGCAAGTACCCCAGCCTGGAACTTCAGCCCTGGATGTACAACGACAGTACACATTGTCAGCAATGATGCTCC
TGAGGACACGGGAACCCTGGAACTCTTAAACGCCCTCACCAAAGACCCTGGCTTCGGGACCCGCTGTATGGAAGG
AAACCCAATCCCAGACACGCCCTGCCAGGCAGGGGAGGAAGAGTGGACCACTGCCCCAGTTCCCCAGACCATCAT
GGACCTCTTCCAGAATGGGAACTGGACAATGCAGAACCCTTCACCTGCATGCCAGTGTAGCAGCGACAAAATCAA
GAAGATGCTGCCTGTGTGTCCCCCAGGGGCAGGGGGGCTGCCTCCTCCACAAAGAAAACAAAACACTGCAGATAT
CCTTCAGGACCTGACAGGAAGAAACATTTCGGATTATCTGGTGAAGACGTATGTGCAGATCATAGCCAAAAGCTT
AAAGAACAAGATCTGGGTGAATGAGTTTAGGTATGGCGGCTTTTCCCTGGGTGTCAGTAATACTCAAGCACTTCC
TCCGAGTCAAGAAGTTAATGATGCCATCAAACAAATGAAGAAACACCTAAAGCTGGCCAAGGACAGTTCTGCAGA
TCGATTTCTCAACAGCTTGGGAAGATTTATGACAGGACTGGACACCAAAAATAATGTCAAGGTGTGGTTCAATAA
CAAGGGCTGGCATGCAATCAGCTCTTTCCTGAATGTCATCAACAATGCCATTCTCCGGGCCAACCTGCAAAAGGG
AGAGAACCCTAGCCATTATGGAATTACTGCTTTCAATCATCCCCTGAATCTCACCAAGCAGCAGCTCTCAGAGGT
GGCTCTGATGACCACATCAGTGGATGTCCTTGTGTCCATCTGTGTCATCTTTGCAATGTCCTTCGTCCCAGCCAG
CTTTGTCGTATTCCTGATCCAGGAGCGGGTCAGCAAAGCAAAACACCTGCAGTTCATCAGTGGAGTGAAGCCTGT
CATCTACTGGCTCTCTAATTTTGTCTGGGATATGTGCAATTACGTTGTCCCTGCCACACTGGTCATTATCATCTT
CATCTGCTTCCAGCAGAAGTCCTATGTGTCCTCCACCAATCTGCCTGTGCTAGCCCTTCTACTTTTGCTGTATGG
GTGGTCAATCACACCTCTCATGTACCCAGCCTCCTTTGTGTTCAAGATCCCCAGCACAGCCTATGTGGTGCTCAC
CAGCGTGAACCTCTTCATTGGCATTAATGGCAGCGTGGCCACCTTTGTGCTGGAGCTGTTCACCGACAATAAGCT
GAATAATATCAATGATATCCTGAAGTCCGTGTTCTTGATCTTCCCACATTTTTGCCTGGGACGAGGGCTCATCGA
CATGGTGAAAAACCAGGCAATGGCTGATGCCCTGGAAAGGTTTGGGGAGAATCGCTTTGTGTCACCATTATCTTG
GGACTTGGTGGGACGAAACCTCTTCGCCATGGCCGTGGAAGGGGTGGTGTTCTTCCTCATTACTGTTCTGATCCA
GTACAGATTCTTCATCAGGCCCAGACCTGTAAATGCAAAGCTATCTCCTCTGAATGATGAAGATGAAGATGTGAG
GCGGGAAAGACAGAGAATTCTTGATGGTGGAGGCCAGAATGACATCTTAGAAATCAAGGAGTTGACGAAGATATA
TAGAAGGAAGCGGAAGCCTGCTGTTGACAGGATTTGCGTGGGCATTCCTCCTGGTGAGTGCTTTGGGCTCCTGGG
AGTTAATGGGGCTGGAAAATCATCAACTTTCAAGATGTTAACAGGAGATACCACTGTTACCAGAGGAGATGCTTT
CCTTAACAAAAATAGTATCTTATCAAACATCCATGAAGTACATCAGAACATGGGCTACTGCCCTCAGTTTGATGC
CATCACAGAGCTGTTGACTGGGAGAGAACACGTGGAGTTCTTTGCCCTTTTGAGAGGAGTCCCAGAGAAAGAAGT
TGGCAAGGTTGGTGAGTGGGCGATTCGGAAACTGGGCCTCGTGAAGTATGGAGAAAAATATGCTGGTAACTATAG
TGGAGGCAACAAACGCAAGCTCTCTACAGCCATGGCTTTGATCGGCGGGCCTCCTGTGGTGTTTCTGGATGAACC
CACCACAGGCATGGATCCCAAAGCCCGGCGGTTCTTGTGGAATTGTGCCCTAAGTGTTGTCAAGGAGGGGAGATC
AGTAGTGCTTACATCTCATAGTATGGAAGAATGTGAAGCTCTTTGCACTAGGATGGCAATCATGGTCAATGGAAG
GTTCAGGTGCCTTGGCAGTGTCCAGCATCTAAAAAATAGGTTTGGAGATGGTTATACAATAGTTGTACGAATAGC
AGGGTCCAACCCGGACCTGAAGCCTGTCCAGGATTTCTTTGGACTTGCATTTCCTGGAAGTGTTCTAAAAGAGAA
ACACCGGAACATGCTACAATACCAGCTTCCATCTTCATTATCTTCTCTGGCCAGGATATTCAGCATCCTCTCCCA
GAGCAAAAAGCGACTCCACATAGAAGACTACTCTGTTTCTCAGACAACACTTGACCAAGTATTTGTGAACTTTGC
CAAGGACCAAAGTGATGATGACCACTTAAAAGACCTCTCATTACACAAAAACCAGACAGTAGTGGACGTTGCAGT
TCTCACATCTTTTCTACAGGATGAGAAAGTGAAAGAAAGCTATGTGAAGAATCCTGTTCATACGGGGTGGCTG
AAAGTAAAGAGGAACTAGACTTTCCTTTGCACCATGTGAAGTGTTGTGGAGAAAAGAGCCAGAAGTTGATGTGGG
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FIGURE 725C

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AAGAAGTAAACTGGATACTGTACTGATACTATTCAATGCAATGCAATTCAATGCAATGAAAACAAAATTCCATTA
CAGGGGCAGTGCCTTTGTAGCCTATGTCTTGTATGGCTCTCAAGTGAAAGACTTGAATTTAGTTTTTTACCTATA
CCTATGTGAAACTCTATTATGGAACCCAATGGACATATGGGTTTGAACTCACACTTTTTTTTTTTTTTTGTTCC
TGTGTATTCTCATTGGGGTTGCAACAATAATTCATCAAGTAATCATGGCCAGCGATTATTGATCAAAATCAAAAG
GTAATGCACATCCTCATTCACTAAGCCATGCCATGCCCAGGAGACTGGTTTCCCGGTGACACATCCATTGCTGGC
AATGAGTGTGCCAGAGTTATTAGTGCCAAGTTTTCAGAAAGTTTGAAGCACCATGGTGTGTCATGCTCACTTTT
GTGAAAGCTGCTCTGCTCAGAGTCTATCAACATTGAATATCAGTTGACAGAATGGTGCCATGCGTGGCTAACATC
CTGCTTTGATTCCCTCTGATAAGCTGTTCTGGTGGCAGTAACATGCAACAAAATGTGGGTGTCTCCAGGCACGG
GAAACTTGGTTCCATTGTTATATTGTCCTATGCTTCGAGCCATGGGTCTACAGGGTCATCCTTATGAGACTCTTA
AATATACTTAGATCCTGGTAAGAGGCAAAGAATCAACAGCCAAACTGCTGGGGCTGCAAGCTGCTGAAGCCAGGG
CATGGGATTAAAGAGATTGTGCGTTCAAACCTAGGGAAGCCTGTGCCCATTGTCCTGACTGTCTGCTAACATGG
TACACTGCATCTCAAGATGTTTATCTGACACAAGTGTATTATTTCTGGCTTTTTGAATTAATCTAGAAAATGAAA
AGATGGAGTTGTATTTTGACAAAAATGTTTGTACTTTTTAATGTTATTTGGAATTTTAAGTTCTATCAGTGACTT
CTGAATCCTTAGAATGGCCTCTTTGTAGAACCCTGTGGTATAGAGGAGTATGGCCACTGCCCCACTATTTTTATT
TTCTTATGTAAGTTTGCATATCAGTCATGACTAGTGCCTAGAAAGCAATGTGATGGTCAGGATCTCATGACATTA
TATTTGAGTTTCTTTCAGATCATTTAGGATACTCTTAATCTCACTTCATCAATCAAATATTTTTTGAGTGTATGC
TGTAGCTGAAAGAGTATGTACGTACGTATAAGACTAGAGAGATATTAAGTCTCAGTACACTTCCTGTGCCATGTT
ATTCAGCTCACTGGTTTACAAATATAGGTTGTCTTGTGGTTGTAGGAGCCCACTGTAACAATACTGGGCAGCCTT
TTTTTTTTTTTTTTAATTGCAACAATGCAAAAGCCAAGAAAGTATAAGGGTCACAAGTCTAAACAATGAATTCT
TCAACAGGGAAAACAGCTAGCTTGAAAACTTGCTGAAAAACACAACTTGTGTTTATGGCATTTAGTACCTTCAAA
TAATTGGCTTTGCAGATATTGGATACCCCATTAAATCTGACAGTCTCAAATTTTTCATCTCTTCAATCACTAGTC
AAGAAAAATATAAAAACAACAAATACTTCCATATGGAGCATTTTTCAGAGTTTTCTAACCCAGTCTTATTTTTCT
AGTCAGTAAACATTTGTAAAAATACTGTTTCACTAATACTTACTGTTAACTGTCTTGAGAGAAAAGAAAAATATG
AGAGAACTATTGTTTGGGGAAGTTCAAGTGATCTTTCAATATCATTACTAACTTCTTCCACTTTTTCCAGAATTT
GAATATTAACGCTAAAGGTGTAAGACTTCAGATTTCAAATTAATCTTTCTATATTTTTTAAATTTACAGAATATT
ATATAACCCACTGCTGAAAAAGAAAAAAATGATTGTTTAGAAGTTAAAGTCAATATTGATTTAAATATAAGTA
ATGAAGGCATATTTCCAATAACTAGTGATATGGCATCGTTGCATTTTACAGTATCTTCAAAAATACAGAATTTAT
AGAATAATTTCTCCTCATTTAATATTTTTCAAAATCAAAGTTATGGTTTCCTCATTTTACTAAAATCGTATTCTA
ATTCTTCATTATAGTAAATCTATGAGCAACTCCTTACTTCGGTTCCTCTGATTTCAAGGCCATATTTTAAAAAAT
CAAAAGGCACTGTGAACTATTTTGAAGAAAACACAACATTTTAATACAGATTGAAAGGACCTCTTCTGAAGCTAG
AAACAATCTATAGTTATACATCTTCATTAATACTGTGTTACCTTTTAAAATAGTAATTTTTTACATTTTCCTGTG
TAAACCTAATTGTGGTAGAAATTTTTACCAACTCTATACTCAATCAAGCAAAATTTCTGTATATTCCCTGTGGAA
TGTACCTATGTGAGTTTCAGAAATTCTCAAAATACGTGTTCAAAAATTTCTGCTTTTGCATCTTTGGGACACCTC
AGAAAACTTATTAACAACTGTGAATATGAGAAATACAGAAGAAAATAATAAGCCCTCTATACATAAATGCCCAGC
ACAATTCATTGTTAAAAAACAACCAAACCTCACACTACTGTATTTCATTATCTGTACTGAAAGCAAATGCTTTGT
GACTATTAAATGTTGCACATCATTCATTCACTGTATAGTAATCATTGACTAAAGCCATTGTCTGTGTTTTCTTC
TTGTGGTTGTATATATCAGGTAAAATATTTTCCAAAGAGCCATGTGTCATGTAATACTGAACCACTTTGATATTG
AGACATTAATTTGTACCCTTGTTATTATCTACTAGTAATAATGTAATACTGTAGAAATATTGCTCTAATTCTTTT
CAAAATTGTTGCATCCCCCTTAGAATGTTTCTATTTCCATAAGGATTTAGGTATGCTATTATCCCTTCTTATACC
CTAAGATGAAGCTGTTTTTGTGCTCTTTGTTCATCATTGGCCCTCATTCCAAGCACTTTACGCTGTCTGTAATGG
GATCTATTTTTGCACTGGAATATCTGAGAATTGCAAAACTAGACAAAGTTTCACAACAGATTTCTAAGTTAAAT
CATTTTCATTAAAAGGAAAAAGAAAAAAATTTTGTATGTCAATAACTTTATATGAAGTATTAAAATGCATATT
TCTATGTTGTAATATAATGAGTCACAAAATAAAGCTGTGACAGTTCTGTTGGTCTACAGAAA
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FIGURE 726

MPSAGTLPWVQGIICNANNPCFRYPTPGEAPGVVGNFNKSIVARLFSDARRLLLYSQKDTSMKDMRKVLRTLQQI
KKSSSNLKLQDFLVDNETFSGFLYHNLSLPKSTVDKMLRADVILHKVFLQGYQLHLTSLCNGSKSEEMIQLGDQE
VSELCGLPREKLAAAERVLRSNMDILKPILRTLNSTSPFPSKELAEATKTLLHSLGTLAQELFSMRSWSDMRQEV
MFLTNVNSSSSSTQIYQAVSRIVCGHPEGGGLKIKSLNWYEDNNYKALFGGNGTEEDAETFYDNSTTPYCNDLMK
NLESSPLSRIIWKALKPLLVGKILYTPDTPATRQVMAEVNKTFQELAVFHDLEGMWEELSPKIWTFMENSQEMDL
VRMLLDSRDNDHFWEQQLDGLDWTAQDIVAFLAKHPEDVQSSNGSVYTWREAFNETNQAIRTISRFMECVNLNKL
EPIATEVWLINKSMELLDERKFWAGIVFTGITPGSIELPHHVKYKIRMDIDNVERTNKIKDGYWDPGPRADPFED
MRYVWGGFAYLQDVVEQAIIRVLTGTEKKTGVYMQQMPYPCYVDDIFLRVMSRSMPLFMTLAWIYSVAVIIKGIV
YEKEARLKETMRIMGLDNSILWFSWFISSLIPLLVSAGLLVVILKLGNLLPYSDPSVVFVFLSVFAVVTILQCFL
ISTLFSRANLAAACGGIIYFTLYLPYVLCVAWQDYVGFTLKIFASLLSPVAFGFGCEYFALFEEQGIGVQWDNLF
ESPVEEDGFNLTTSVSMMLFDTFLYGVMTWYIEAVFPGQYGIPRPWYFPCTKSYWFGEESDEKSHPGSNQKRISE
ICMEEEPTHLKLGVSIQNLVKVYRDGMKVAVDGLALNFYEGQITSFLGHNGAGKTTTMSILTGLFPPTSGTAYIL
GKDIRSEMSTIRQNLGVCPQHNVLFDMLTVEEHIWFYARLKGLSEKHVKAEMEQMALDVGLPSSKLKSKTSQLSG
GMQRKLSVALAFVGGSKVVILDEPTAGVDPYSRRGIWELLLKYRQGRTIILSTHHMDEADVLGDRIAIISHGKLC
CVGSSLFLKNQLGTGYYLTLVKKDVESSLSSCRNSSSTVSYLKKEDSVSQSSSDAGLGSDHESDTLTIDVSAISN
LIRKHVSEARLVEDIGHELTYVLPYEAAKEGAFVELFHEIDDRLSDLGISSYGISETTLEEIFLKVAEESGVDAE
TSDGTLPARRNRRAFGDKQSCLRPFTEDDAADPNDSDIDPESRETDLLSGMDGKGSYQVKGWKLTQQQFVALLWK
RLLIARRSRKGFFAQIVLPAVFVCIALVFSLIVPPFGKYPSLELQPWMYNEQYTFVSNDAPEDTGTLELLNALTK
DPGFGTRCMEGNPIPDTPCQAGEEEWTTAPVPQTIMDLFQNGNWTMQNPSPACQCSSDKIKKMLPVCPPGAGGLP
PPQRKQNTADILQDLTGRNISDYLVKTYVQIIAKSLKNKIWVNEFRYGGFSLGVSNTQALPPSQEVNDATKQMKK
HLKLAKDSSADRFLNSLGRFMTGLDTRNNVKVWFNNKGWHAISSFLNVINNAILRANLQKGENPSHYGITAFNHP
LNLTKQQLSEVAPMTTSVDVLVSICVIFAMSFVPASFVVFLIQERVSKAKHLQFISGVKPVIYWLSNFVWDMCNY
VVPATLVIIIFICFQQKSYVSSTNLPVLALLLLLYGWSITPLMYPASFVFKIPSTAYVVLTSVNLFIGINGSVAT
FVLELFTDNKLNNINDILKSVFLIFPHFCLGRGLIDMVKNQAMADALERFGENRFVSPLSWDLVGRNLFAMAVEG
VVFFLITVLIQYRFFIRPRPVNAKLSPLNDEDEDVRRERQRILDGGGQNDILEIKELTKIYRRKRKPAVDRICVG
IPPGECFGLLGVNGAGKSSTFKMLTGDTTVTRGDAFLNRNSILSNIHEVHQNMGYCPQFDAITELLTGREHVEFF
ALLRGVPEKEVGKVGEWAIRKLGLVKYGEKYAGNYSGGNKRKLSTAMALI

FIGURE 727A

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GGCCGGGACCCGCAGAGCCGAGCCGACCCTTCTCTCCCGGGCTGCGGCAGGGCAGGGCGGGGAGCTCCGCGCACC
AACAGAGCCGGTTCTCAGGGCGCTTTGCTCCTTGTTTTTTCCCCGGTTCTGTTTTCTCCCCTTCTCCGGAAGGCT
TGTCAAGGGGTAGGAGAAAGAGACGCAAACACAAAAGTGGAAAACAGTTAATGACCAGCCACGGGCGTCCCTGCT
GTGAGCTCTGGCCGCTGCCTTCCAGGGCTCCCGAGCCACACGCTGGGCGTGCTGGCTGAGGGAACATGGCTTGTT
GGCCTCAGCTGAGGTTGCTGCTGTGGAAGAACCTCACTTTCAGAAGAAGACAAACATGTCAGCTGTTACTGGAAG
TGGCCTGGCCTCTATTTATCTTCCTGATCCTGATCTCTGTTCGGCTGAGCTACCCACCCTATGAACAACATGAAT
GCCATTTTCCAAATAAAGCCATGCCCTCTGCAGGAACACTTCCTTGGGTTCAGGGGATTATCTGTAATGCCAACA
ACCCCTGTTTCCGTTACCCGACTCCTGGGGAGGCTCCCGGAGTTGTTGGAAACTTTAACAAATCCATTGTGGCTC
GCCTGTTCTCAGATGCTCGGAGGCTTCTTTTATACAGCCAGAAAGACACCAGCATGAAGGACATGCGCAAAGTTC
TGAGAACATTACAGCAGATCAAGAAATCCAGCTCAAACTTGAAGCTTCAAGATTTCCTGGTGGACAATGAAACCT
TCTCTGGGTTCCTATATCACAACCTCTCTCTCCCAAAGTCTACTGTGGACAAGATGCTGAGGGCTGATGTCATTC
TCCACAAGGTATTTTTGCAAGGCTACCAGTTACATTTGACAAGTCTGTGCAATGGATCAAAATCAGAAGAGATGA
TTCAACTTGGTGACCAAGAAGTTTCTGAGCTTTGTGGCCTACCAAAGGAGAAACTGGCTGCAGCAGAGCGAGTAC
TTCGTTCCAACATGGACATCCTGAAGCCAATCCTGAGAACACTAAACTCTACATCTCCCTTCCCGAGCAAGGAGC
TGGCTGAAGCCACAAAAACATTGCTGCATAGTCTTGGGACTCTGGCCCAGGAGCTGTTCAGCATGAGAAGCTGGA
GTGACATGCGACAGGAGGTGATGTTTCTGACCAATGTGAACAGCTCCAGCTCCTCCACCCAAATCTACCAGGCTG
TGTCTCGTATTGTCTGCGGGCATCCCGAGGGAGGGGGGCTGAAGATCAAGTCTCTCAACTGGTATGAGGACAACA
ACTACAAAGCCCTCTTTGGAGGCAATGGCACTGAGGAAGATGCTGAAACCTTCTATGACAACTCTACAACTCCTT
ACTGCAATGATTTGATGAAGAATTTGGAGTCTAGTCCTCTTTCCCGCATTATCTGGAAAGCTCTGAAGCCGCTGC
TCGTTGGGAAGATCCTGTATACACCTGACACTCCAGCCACAAGGCAGGTCATGGCTGAGGTGAACAAGACCTTCC
AGGAACTGGCTGTGTTCCATGATCTGGAAGGCATGTGGGAGGAACTCAGCCCCAAGATCTGGACCTTCATGGAGA
ACAGCCAAGAAATGGACCTTGTCCGGATGCTGTTGGACAGCAGGGACAATGACCACTTTTGGGAACAGCAGTTGG
ATGGCTTAGATTGGACAGCCCAAGACATCGTGGCGTTTTGGCCAAGCACCCAGAGGATGTCCAGTCCAGTAATG
GTTCTGTGTACACCTGGAGAGAAGCTTTCAACGAGACTAACCAGGCAATCCGGACCATATCTCGCTTCATGGAGT
GTGTCAACCTGAACAAGCTAGAACCCATAGCAACAGAAGTCTGGCTCATCAACAAGTCCATGGAGCTGCTGGATG
AGAGGAAGTTCTGGGCTGGTATTGTGTTCACTGGAATTACTCCAGGCAGCATTGAGCTGCCCCATCATGTCAAGT
ACAAGATCCGAATGGACATTGACAATGTGGAGAGGACAAATAAAATCAAGGATGGGTACTGGGACCCTGGTCCTC
GAGCTGACCCCTTTGAGGACATGCGGTACGTCTGGGGGGGCTTCGCCTACTTGCAGGATGTGGTGGAGCAGGCAA
TCATCAGGGTGCTGACGGGCACCGAGAAGAAAACTGGTGTCTATATGCAACAGATGCCCTATCCCTGTTACGTTG
ATGACATCTTTCTGCGGGTGATGAGCCGGTCAATGCCCCTCTTCATGACGCTGGCCTGGATTTACTCAGTGGCTG
TGATCATCAAGGGCATCGTGTATGAGAAGGAGGCACGGCTGAAAGAGACCATGCGGATCATGGGCCTGGACAACA
GCATACTCTGGTTTAGCTGGTTCATTAGTAGCCTCATTCCTCTTCTTGTGAGCGCTGGCCTGCTAGTGGTCATCC
TGAAGTTAGGAAACCTGCTGCCCTACAGTGATCCCAGCGTGGTGTTTGTCTTCCTGTCCGTGTTTGCTGTGGTGA
CAATCCTGCAGTGCTTCCTGATTAGCACACTCTTCTCCAGAGCCAACCTGGCAGCAGCCTGTGGGGGCATCATCT
ACTTCACGCTGTACCTGCCCTACGTCCTGTGTGTGGCATGGCAGGACTACGTGGGCTTCACACTCAAGATCTTCG
CTAGCCTGCTGTCTCCTGTGGCTTTTGGGTTTGGCTGTGAGTACTTTGCCCTTTTTGAGGAGCAGGGCATTGGAG
TGCAGTGGGACAACCTGTTTGAGAGTCCTGTGGAGGAAGATGGCTTCAATCTCACCACTTCGATCTCCATGATGC
TGTTTGACACCTTCCTCTATGGGGTGATGACCTGGTACATTGAGGCTGTCTTTCCAGGCCAGTACGGAATTCCCA
GGCCCTGGTATTTTCCTTGCACCAAGTCCTACTGGTTTGGCGAGGAAAGTGATGAGAAGAGCCACCCTGGTTCCA
ACCAGAAGAGAATGTCAGAAATCTGCATGGAGGAGGAACCCACCCACTTGAAGCTGGGCGTGTCCATTCAGAACC
TGGTAAAAGTCTACCGAGATGGGATGAAGGTGGCTGTCGATGGCCTGGCACTGAATTTTTATGAGGGCCAGATCA
CCTCCTTCCTGGGCCACAATGGAGCGGGGAAGACGACCACCATGTCAATCCTGACCGGGTTGTTCCCCCCGACCT
CGGGCACCGCCTACATCCTGGGAAAAGACATTCGCTCTGAGATGAGCACCATCCGGCAGAACCTGGGGGTCTGTC
CCCAGCATAACGTGCTGTTTGACATGCTGACTGTCGAAGAACACATCTGGTTCTATGCCCGCTTGAAAGGGCTCT
CTGAGAAGCACGTGAAGGCGGAGATGGAGCAGATGGCCCTGGATGTTGGTTTGCCATCAAGCAAGCTGAAAAGCA
AAACAAGCCAGCTGTCAGGTGGAATGCAGAGAAAGCTATCTGTGGCCTTGGCCTTTGTCGGGGGATCTAAGGTTG
TCATTCTGGATGAACCCACAGCTGGTGTGGACCCTTACTCCCGCAGGGGAATATGGGAGCTGCTGCTGAAATACC
GACAAGGCCGCACCATTATTCTCTCTACACACCACATGGATGAAGCGGACGTCCTGGGGGACAGGATTGCCATCA
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FIGURE 727B

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TCTCCCATGGGAAGCTGTGCTGTGTGGGCTCCTCCCTGTTTCTGAAGAACCAGCTGGGAACAGGCTACTACCTGA
CCTTGGTCAAGAAAGATGTGGAATCCTCCCTCAGTTCCTGCAGAAACAGTAGTAGCACTGTGTCATACCTGAAAA
AGGAGGACAGTGTTTCTCAGAGCAGTTCTGATGCTGGCCTGGGCAGCGACCATGAGAGTGACACGCTGACCATCG
ATGTCTCTGCTATCTCCAACCTCATCAGGAAGCATGTGTCTGAAGCCCGGCTGGTGGAAGACATAGGGCATGAGC
TGACCTATGTGCTGCCATATGAAGCTGCTAAGGAGGGAGCCTTTGTGGAACTCTTTCATGAGATTGATGACCGGC
TCTCAGACCTGGGCATTTCTAGTTATGGCATCTCAGAGACGACCCTGGAAGAAATATTCCTCAAGGTGGCCGAAG
AGAGTGGGGTGGATGCTGAGACCTCAGATGGTACCTTGCCAGCAAGACGAAACAGGCGGGCCTTCGGGGACAAGC
AGAGCTGTCTTCGCCCGTTCACTGAAGATGATGCTGCTGATCCAAATGATTCTGACATAGACCCAGAATCCAGAG
AGACAGACTTGCTCAGTGGGATGGATGGCAAAGGGTCCTACCAGGTGAAAGGCTGGAAACTTACACAGCAACAGT
TTGTGGCCCTTTTGTGGAAGAGACTGCTAATTGCCAGACGGAGTCGGAAAGGATTTTTTGCTCAGATTGTCTTGC
CAGCTGTGTTTGTCTGCATTGCCCTTGTGTTCAGCCTGATCGTGCCACCCTTTGGCAAGTACCCCAGCCTGGAAC
TTCAGCCCTGGATGTACAACGAACAGTACACATTTGTCAGCAATGATGCTCCTGAGGACACGGGAACCCTGGAAC
TCTTAAACGCCCTCACCAAAGACCCTGGCTTCGGGACCCGCTGTATGGAAGGAAACCCAATCCCAGACACGCCCT
GCCAGGCAGGGGAGGAAGAGTGGACCACTGCCCCAGTTCCCCAGACCATCATGGACCTCTTCCAGAATGGGAACT
GGACAATGCAGAACCCTTCACCTGCATGCCAGTGTAGCAGCGACAAAATCAAGAAGATGCTGCCTGTGTGTCCCC
CAGGGGCAGGGGGGCTGCCTCCTCCACAAAGAAAACAAACACTGCAGATATCCTTCAGGACCTGACAGGAAGAA
ACATTTCGGATTATCTGGTGAAGACGTATGTGCAGATCATAGCCAAAAGCTTAAAGAACAAGATCTGGGTGAATG
AGTTTAGGTATGGCGGCTTTTCCCTGGGTGTCAGTAATACTCAAGCACTTCCTCCGAGTCAAGAAGTTAATGATG
CCATCAAACAAATGAAGAAACACCTAAAGCTGGCCAAGGACAGTTCTGCAGATCGATTTCTCAACAGCTTGGGAA
GATTATGACAGGACTGGACACCAGAAATAATGTCAAGGTGTGGTTCAATAACAAGGGCTGGCATGCAATCAGCT
CTTTCCTGAATGTCATCAACAATGCCATTCTCCGGGCCAACCTGCAAAAGGGAGAGAACCCTAGCCATTATGGAA
TTACTGCTTTCAATCATCCCCTGAATCTCACCAAGCAGCAGCTCTCAGAGGTGGCTCTGATGACCACATCAGTGG
ATGTCCTTGTGTCCATCTGTGTCATCTTTGCAATGTCCTTCGTCCCAGCCAGCTTTGTCGTATTCCTGATCCAGG
AGCGGGTCAGCAAAGCAAACACCTGCAGTTCATCAGTGGAGTGAAGCCTGTCATCTACTGGCTCTCTAATTTTG
TCTGGGATATGTGCAATTACGTTGTCCCTGCCACACTGGTCATTATCATCTTCATCTGCTTCCAGCAGAAGTCCT
ATGTGTCCTCCACCAATCTGCCTGTGCTAGCCCTTCTACTTTTGCTGTATGGGTGGTCAATCACACCTCTCATGT
ACCCAGCCTCCTTTGTGTTCAAGATCCCCAGCACAGCCTATGTGGTGCTCACCAGCGTGAACCTCTTCATTGGCA
TTAATGGCAGCGTGGCCACCTTTGTGCTGGAGCTGTTCACCGACAATAAGCTGAATAATATCAATGATATCCTGA
AGTCCGTGTTCTTGATCTTCCCACATTTTTGCCTGGGACGAGGGCTCATCGACATGGTGAAAAACCAGGCAATGG
CTGATGCCCTGGAAAGGTTTGGGGAGAATCGCTTTGTGTCACCATTATCTTGGGACTTGGTGGGACGAAACCTCT
TCGCCATGGCCGTGGAAGGGGTGGTGTTCTTCCTCATTACTGTTCTGATCCAGTACAGATTCTTCATCAGGCCCA
GACCTGTAAATGCAAAGCTATCTCCTCTGAATGATGAAGATGAAGATGTGAGGCGGGAAAGACAGAGAATTCTTG
ATGGTGGAGGCCAGAATGACATCTTAGAAATCAAGGAGTTGACGAAGATATATAGAAGGAAGCGGAAGCCTGCTG
TTGACAGGATTTGCGTGGGCATTCCTCCTGGTGAGTGCTTTGGGCTCCTGGGAGTTAATGGGGCTGGAAAATCAT
CAACTTTCAAGATGTTAACAGGAGATACCACTGTTACCAGAGGAGATGCTTTCCTTAACAAAAATAGTATCTTAT
CAAACATCCATGAAGTACATCAGAACATGGGCTACTGCCCTCAGTTTGATGCCATCACAGAGCTGTTGACTGGGA
GAGAACACGTGGAGTTCTTTGCCCTTTTGAGAGGAGTCCCAGAGAAAGAAGTTGGCAAGGTTGGTGAGTGGGCGA
TTCGGAAACTGGGCCTCGTGAAGTATGGAGAAAAATATGCTGGTAACTATAGTGGAGGCAACAAACGCAAGCTCT
CTACAGCCATGGCTTTGATCGGCGGGCCTCCTGTGGTGTTTCTGGATGAACCCACCACAGGCATGGATCCCAAAG
CCCGGCGGTTCTTGTGGAATTGTGCCCTAAGTGTTGTCAAGGAGGGGAGATCAGTAGTGCTTACATCTCATAGTA
TGGAAGAATGTGAAGCTCTTTGCACTAGGATGGCAATCATGGTCAATGGAAGGTTCAGGTGCCTTGGCAGTGTCC
AGCATCTAAAAAATAGGTTTGGAGATGGTTATACAATAGTTGTACGAATAGCAGGGTCCAACCCGGACCTGAAGC
CTGTCCAGGATTTCTTTGGACTTGCATTCCTGGAAGTGTTCTAAAAGAGAAACACCGGAACATGCTACAATACC
AGCTTCCATCTTCATTATCTTCTCTGGCCAGGATATTCAGCATCCTCTCCCAGAGCAAAAAGCGACTCCACATAG
AAGACTACTCTGTTTCTCAGACAACACTTGACCAAGTATTTGTGAACTTTGCCAAGGACCAAAGTGATGATGACC
ACTTAAAAGACCTCTCATTACACAAAAACCAGACAGTAGTGGACGTTGCAGTTCTCACATCTTTTCTACAGGATG
AGAAAGTGAAAGAAAGCTATGTA**TGA**AGAATCCTGTTCATACGGGGTGGCTGAAAGTAAAGAGGAACTAGACTTT
CCTTTGCACCATGTGAAGTGTTGTGGAGAAAAGAGCCAGAAGTTGATGTGGGAAGAAGTAAACTGGATACTGTAC
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FIGURE 727C

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TGATACTATTCAATGCAATGCAATTCAATGCAATGAAAACAAAATTCCATTACAGGGGCAGTGCCTTTGTAGCCT
ATGTCTTGTATGGCTCTCAAGTGAAAGACTTGAATTTAGTTTTTTACCTATACCTATGTGAAACTCTATTATGGA
ACCCAATGGACATATGGGTTTGAACTCACACTTTTTTTTTTTTTTGTTCCTGTGTATTCTCATTGGGGTTGCAA
CAATAATTCATCAAGTAATCATGGCCAGCGATTATTGATCAAAATCAAAAGGTAATGCACATCCTCATTCACTAA
GCCATGCCATGCCCAGGAGACTGGTTTCCCGGTGACACATCCATTGCTGGCAATGAGTGTGCCAGAGTTATTAGT
GCCAAGTTTTTCAGAAAGTTTGAAGCACCATGGTGTGTCATGCTCACTTTTGTGAAAGCTGCTCTGCTCAGAGTC
TATCAACATTGAATATCAGTTGACAGAATGGTGCCATGCGTGGCTAACATCCTGCTTTGATTCCCTCTGATAAGC
TGTTCTGGTGGCAGTAACATGCAACAAAATGTGGGTGTCTCTAGGCACGGGAAACTTGGTTCCATTGTTATATT
GTCCTATGCTTCGAGCCATGGGTCTACAGGGTCATCCTTATGAGACTCTTAAATATACTTAGATCCTGGTAAGAG
GCAAAGAATCAACAGCCAAACTGCTGGGGCTGCAAGCTGCTGAAGCCAGGGCATGGGATTAAAGAGATTGTGCGT
TCAAACCTAGGGAAGCCTGTGCCCATTTGTCCTGACTGTCTGCTAACATGGTACACTGCATCTCAAGATGTTTAT
CTGACACAAGTGTATTATTTCTGGCTTTTTGAATTAATCTAGAAAATGAAAGATGGAGTTGTATTTTGACAAAA
ATGTTTGTACTTTTTAATGTTATTTGGAATTTTAAGTTCTATCAGTGACTTCTGAATCCTTAGAATGGCCTCTTT
GTAGAACCCTGTGGTATAGAGGAGTATGGCCACTGCCCCACTATTTTTATTTTCTTATGTAAGTTTGCATATCAG
TCATGACTAGTGCCTAGAAAGCAATGTGATGGTCAGGATCTCATGACATTATATTTGAGTTTCTTTCAGATCATT
TAGGATACTCTTAATCTCACTTCATCAATCAAATATTTTTTGAGTGTATGCTGTAGCTGAAAGAGTATGTACGTA
CGTATAAGACTAGAGAGATATTAAGTCTCAGTACACTTCCTGTGCCATGTTATTCAGCTCACTGGTTTACAAATA
TAGGTTGTCTTGTGGTTGTAGGAGCCCACTGTAACAATATTGGGCAGCCTTTTTTTTTTTTTTAATTGCAACA
ATGCAAAAGCCAAGAAAGTATAAGGGTCACAAGTTTAAACAATGAATTCTTCAACAGGGAAACAGCTAGCTTGA
AAACTTGCTGAAAAACACAACTTGTGTTTATGGCATTTAGTACCTTCAAATAATTGGCTTTGCAGATATTGGATA
CCCCATTAAATCTGACAGTCTCAAATTTTTCATCTCTTCAATCACTAGTCAAGAAAAATATAAAAACAACAAATA
CTTCCATATGGAGCATTTTTCAGAGTTTTCTAACCCAGTCTTATTTTTCTAGTCAGTAAACATTTGTAAAAATAC
TGTTTCACTAATACTTACTGTTAACTGTCTTGAGAGAAAAGAAAAATATGAGAGAACTATTGTTTGGGGAAGTTC
AAGTGATCTTTCAATATCATTACTAACTTCTTCCACTTTTTCCAAAATTTGAATATTAACGCTAAAGGTGTAAGA
CTTCAGATTTCAAATTAATCTTTCTATATTTTTTAAATTTACAGAATATTATATAACCCACTGCTGAAAAAGAAA
AAAATGATTGTTTAGAAGTTAAAGTCAATATTGATTTAAATATAAGTAATGAAGGCATATTTCCAATAACTAG
TGATATGGCATCGTTGCAATTTACAGTATCTTCAAAAATACAGAATTTATAGAATAATTTCTCCTCATTTAATAT
TTTTCAAAATCAAAGTTATGGTTTCCTCATTTTACTAAAATCGTATTCTAATTCTTCATTATAGTAAATCTATGA
GCAACTCCTTACTTCGGTTCCTCTGATTTCAAGGCCATATTTTAAAAAATCAAAAGGCACTGTGAACTATTTTGA
AGAAAACACGACATTTTAATACAGATTGAAAGGACCTCTTCTGAAGCTAGAAACAATCTATAGTTATACATCTTC
ATTAATACTGTGTTACCTTTTAAAATAGTAATTTTTTACATTTTCCTGTGTAAACCTAATTGTGGTAGAAATTTT
TACCAACTCTATACTCAATCAAGCAAAATTTCTGTATATTCCCTGTGGAATGTACCTATGTGAGTTTCAGAAATT
CTCAAAATACGTGTTCAAAAATTTCTGCTTTTGCATCTTTGGGACACCTCAGAAAACTTATTAACAACTGTGAAT
ATGAGAAATACAGAAGAAAATAATAAGCCCTCTATACATAAATGCCCAGCACAATTCATTGTTAAAAAACAACCA
AACCTCACACTACTGTATTTCATTATCTGTACTGAAAGCAAATGCTTTGTGACTATTAAATGTTGCACATCATTC
ATTCACTGTATAGTAATCATTGACTAAAGCCATTTGCTGTGTTTTCTTCTTGTGGXTGXATATATCAGGTAAAAT
ATTTTCCAAAGAGCCATGTGTCATGTAATACTGAACCCTTTGATATTGAGACATTAATTTGGACCCTTGGTATTA
TCTACTAGAATAATGTAATACTGXAGAAATATTGCTCTAATTCTTTCAAAATGGTGCATCCCCCTTAAAAXGTTC
TATTTCCATAAGGATTTAGCTTGCTTATCCCTTCTTATACCCTAAGATGAAGCTGTTTTTGTGCTCTTTGTTCAT
CATTGGCCCTCATTCCAAGCACTTTACGCTGTCTGTAATGGGATCTATTTTTGCACTGGAATATCTGAGAATTGC
AAAACTAGACAAAAGTTTCACAACAGATTTCTAAGTTAAATCATTTTCATTAAAAGGAAAAAAGAAAAAAATTT
TGTATGTCAATAACTTTATATGAAGTATTAAAATGCATATTTCTATGTTGTAATATAATGAGTCACAAAATAAAG
CTGTGACAGTTCTGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAA
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FIGURE 728

MACWPQLRLLLWKNLTFRRRQTCQLLLEVAWPLFIFLILISVRLSYPPYEQHECHFPNKAMPSAGTLPWVQGIIC
NANNPCFRYPTPGEAPGVVGNFNKSIVARLFSDARRLLLYSQKDTSMKDMRKVLRTLQQIKKSSSNLKLQDFLVD
NETFSGFLYHNLSLPKSTVDKMLRADVILHKVFLQGYQLHLTSLCNGSKSEEMIQLGDQEVSELCGLPKEKLAAA
ERVLRSNMDILKPILRTLNSTSPFPSKELAEATKTLLHSLGTLAQELFSMRSWSDMRQEVMFLTNVNSSSSSTQI
YQAVSRIVCGHPEGGGLKIKSLNWYEDNNYKALFGGNGTEEDAETFYDNSTTPYCNDLMKNLESSPLSRIIWKAL
KPLLVGKILYTPDTPATRQVMAEVNKTFQELAVFHDLEGMWEELSPKIWTFMENSQEMDLVRMLLDSRDNDHFWE
QQLDGLDWTAQDIVAFLAKHPEDVQSSNGSVYTWREAFNETNQAIRTISRFMECVNLNKLEPIATEVWLINKSME
LLDERKFWAGIVFTGITPGSIELPHHVKYKIRMDIDNVERTNKIKDGYWDPGPRADPFEDMRYVWGGFAYLQDVV
EQAIIRVLTGTEKKTGVYMQQMPYPCYVDDIFLRVMSRSMPLFMTLAWIYSVAVIIKGIVYEKEARLKETMRIMG
LDNSILWFSWFISSLIPLLVSAGLLVVILKLGNLLPYSDPSVVFVFLSVFAVVTILQCFLISTLFSRANLAAACG
GIIYFTLYLPYVLCVAWQDYVGFTLKIFASLLSPVAFGFGCEYFALFEEQGIGVQWDNLFESPVEEDGFNLTTSI
SMMLFDTFLYGVMTWYIEAVFPGQYGIPRPWYFPCTKSYWFGEESDEKSHPGSNQKRMSEICMEEEPTHLKLGVS
IQNLVKVYRDGMKVAVDGLALNFYEGQITSFLGHNGAGKTTTMSILTGLFPPTSGTAYILGKDIRSEMSTIRQNL
GVCPQHNVLFDMLTVEEHIWFYARLKGLSEKHVKAEMEQMALDVGLPSSKLKSKTSQLSGGMQRKLSVALAFVGG
SKVVILDEPTAGVDPYSRRGIWELLLKYRQGRTIILSTHHMDEADVLGDRIAIISHGKLCCVGSSLFLKNQLGTG
YYLTLVKKDVESSLSSCRNSSSTVSYLKKEDSVSQSSSDAGLGSDHESDTLTIDVSAISNLIRKHVSEARLVEDI
GHELTYVLPYEAAKEGAFVELFHEIDDRLSDLGISSYGISETTLEEIFLKVAEESGVDAETSDGTLPARRNRRAF
GDKQSCLRPFTEDDAADPNDSDIDPESRETDLLSGMDGKGSYQVKGWKLTQQQFVALLWKRLLIARRSRKGFFAQ
IVLPAVFVCIALVFSLIVPPFGKYPSLELQPWMYNEQYTFVSNDAPEDTGTLELLNALTKDPGFGTRCMEGNPIP
DTPCQAGEEEWTTAPVPQTIMDLFQNGNWTMQNPSPACQCSSDKIKKMLPVCPPGAGGLPPPQRKQNTADILQDL
TGRNISDYLVKTYVQIIAKSLKNKIWVNEFRYGGFSLGVSNTQALPPSQEVNDAIKQMKKHLKLAKDSSADRFLN
SLGRFMTGLDTRNNVKVWFNNKGWHAISSFLNVINNAILRANLQKGENPSHYGITAFNHPLNLTKQQLSEVALMT
TSVDVLVSICVIFAMSFVPASFVVFLIQERVSKAKHLQFISGVKPVIYWLSNFVWDMCNYVVPATLVIIIFICFQ
QKSYVSSTNLPVLALLLLLYGWSITPLMYPASFVFKIPSTAYVVLTSVNLFIGINGSVATFVLELFTDNKLNNIN
DILKSVFLIFPHFCLGRGLIDMVKNQAMADALERFGENRFVSPLSWDLVGRNLFAMAVEGVVFFLITVLIQYRFF
IRPRPVNAKLSPLNDEDEDVRRERQRILDGGGQNDILEIKELTKIYRRKRKPAVDRICVGIPPGECFGLLGVNGA
GKSSTFKMLTGDTTVTRGDAFLNKNSILSNIHEVHQNMGYCPQFDAITELLTGREHVEFFALLRGVPEKEVGKVG
EWAIRKLGLVKYGEKYAGNYSGGNKRKLSTAMALIGGPPVVFLDEPTTGMDPKARRFLWNCALSVVKEGRSVVLT
SHSMEECEALCTRMAIMVNGRFRCLGSVQHLKNRFGDGYTIVVRIAGSNPDLKPVQDFFGLAFPGSVLKEKHRNM
LQYQLPSSLSSLARIFSILSQSKKRLHIEDYSVSQTTLDQVFVNFAKDQSDDDHLKDLSLHKNQTVVDVAVLTSF
LQDEKVKESYV

FIGURE 729A

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GCGAGCGCAGCGGAGCCTGGAGAGAAGGCGCTGGGCTGCGAGGGCGCGAGGGCGCGAGGGCAGGGGGCAACCGGA
CCCCGCCCGCACCCATGGCGCCCGTCGCCGTCTGGGCCGCGCTGGCCGTCGGACTGGAGCTCTGGGCTGCGGCGC
ACGCCTTGCCCGCCCAGGTGGCATTTACACCCTACGCCCCGGAGCCCGGGAGCACATGCCGGCTCAGAGAATACT
ATGACCAGACAGCTCAGATGTGCTGCAGCAAATGCTCGCCGGGCCAACATGCAAAAGTCTTCTGTACCAAGACCT
CGGACACCGTGTGTGACTCCTGTGAGGACAGCACATACACCCAGCTCTGGAACTGGGTTCCCGAGTGCTTGAGCT
GTGGCTCCCGCTGTAGCTCTGACCAGGTGGAAACTCAAGCCTGCACTCGGGAACAGAACCGCATCTGCACCTGCA
GGCCCGGCTGGTACTGCGCGCTGAGCAAGCAGGAGGGGTGCCGGCTGTGCGCGCCGCTGCGCAAGTGCCGCCCGG
GCTTCGGCGTGGCCAGACCAGGAACTGAAACATCAGACGTGGTGTGCAAGCCCTGTGCCCCGGGGACGTTCTCCA
ACACGACTTCATCCACGGATATTTGCAGGCCCCACCAGATCTGTAACGTGGTGGCCATCCCTGGGAATGCAAGCA
TGGATGCAGTCTGCACGTCCACGTCCCCCACCCGGAGTATGGCCCCAGGGGCAGTACACTTACCCCAGCCAGTGT
CCACACGATCCCAACACACGCAGCCAACTCCAGAACCCAGCACTGCTCCAAGCACCTCCTTCCTGCTCCCAATGG
GCCCCAGCCCCCCAGCTGAAGGGAGCACTGGCGACTTCGCTCTTCCAGTTGGACTGATTGTGGGTGTGACAGCCT
TGGGTCTACTAATAATAGGAGTGGTGAACTGTGTCATCATGACCCAGGTGAAAAAGAAGCCCTTGTGCCTGCAGA
GAGAAGCCAAGGTGCCTCACTTGCCTGCCGATAAGGCCCGGGGTACACAGGGCCCCGAGCAGCAGCACCTGCTGA
TCACAGCGCCGAGCTCCAGCAGCAGCTCCCTGGAGAGCTCGGCCAGTGCGTTGGACAGAAGGGCGCCCACTCGGA
ACCAGCCACAGGCACCAGGCGTGGAGGCCAGTGGGGCCGGGGAGGCCCGGGCCAGCACCGGGAGCTCAGATTCTT
CCCCTGGTGGCCATGGGACCCAGGTCAATGTCACCTGCATCGTGAACGTCTGTAGCAGCTCTGACCACAGCTCAC
AGTGCTCCTCCCAAGCCAGCTCCACAATGGGAGACACAGATTCCAGCCCCTCGGAGTCCCCGAAGGACGAGCAGG
TCCCCTTCTCCAAGGAGGAATGTGCCTTTCGGTCACAGCTGGAGACGCCAGAGACCCTGCTGGGGAGCACCGAAG
AGAAGCCCCTGCCCCTTGGAGTGCCTGATGCTGGGATGAAGCCCAGTTAACCAGGCCGGTGTGGGCTGTGTCGTA
GCCAAGGTGGGCTGAGCCCTGGCAGGATGACCCTGCGAAGGGGCCCTGGTCCTTCCAGGCCCCCACCACTAGGAC
TCTGAGGCTCTTTCTGGGCCAAGTTCCTCTAGTGCCCTCCACAGCCGCAGCCTCCCTCTGACCTGCAGGCCAAGA
GCAGAGGCAGCGAGTTGGGGAAAGCCTCTGCTGCCATGGTGTGTCCCTCTCGGAAGGCTGGCTGGGCATGGACGT
TCGGGGCATGCTGGGGCAAGTCCCTGACTCTCTGTGACCTGCCCCGCCCAGCTGCACCTGCCAGCCTGGCTTCTG
GAGCCCTTGGGTTTTTTGTTTGTTTGTTTGTTTGTTTGTTTCTCCCCCTGGGCTCTGCCCAGCTCTGGCTT
CCAGAAAACCCCAGCATCCTTTTCTGCAGAGGGGCTTTCTGGAGAGGAGGGATGCTGCCTGAGTCACCCATGAAG
ACAGGACAGTGCTTCAGCCTGAGGCTGAGACTGCGGGATGGTCCTGGGGCTCTGTGTAGGGAGGAGGTGGCAGCC
CTGTAGGGAACGGGGTCCTTCAAGTTAGCTCAGGAGGCTTGGAAAGCATCACCTCAGGCCAGGTGCAGTGGCTCA
CGCCTATGATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACCTGAGGTTAGGAGTTCGAGACCAGCCTGGC
CAACATGGTAAAACCCCATCTCTACTAAAAATACAGAAATTAGCCGGGCGTGGTGGCGGGCACCTATAGTCCCAG
CTACTCAGAAGCCTGAGGCTGGGAAATCGTTTGAACCCGGGAAGCGGAGGTTGCAGGGAGCCGAGATCACGCCAC
TGCACTCCAGCCTGGGCGACAGAGCGAGAGTCTGTCTCAAAAGAAAAAAAAAAAAGCACCGCCTCCAAATGCTAA
CTTGTCCTTTTGTACCATGGTGTGAAAGTCAGATGCCCAGAGGGCCCAGGCAGGCCACCATATTCAGTGCTGTGG
CCTGGGCAAGATAACGCACTTCTAACTAGAAATCTGCCAATTTTTAAAAAAGTAAGTACCACTCAGGCCAACAA
GCCAACGACAAAGCCAAACTCTGCCAGCCACATCCAACCCCCCACCTGCCATTTGCACCCTCCGCCTTCACTCCG
GTGTGCCTGCAGCCCCGCGCCTCCTTCCTTGCTGTCCTAGGCCACACCATCTCCTTTCAGGGAATTTCAGGAACT
AGAGATGACTGAGTCCTCGTAGCCATCTCTCTACTCCTACCTCAGCCTAGACCCTCCTCCTCCCCCAGAGGGGTG
GGTTCCTCTTCCCCACTCCCCACCTTCAATTCCTGGGCCCCAAACGGGCTGCCCTGCCACTTTGGTACATGGCCA
GTGTGATCCCAAGTGCCAGTCTTGTGTCTGCGTCTGTGTTGCGTGTCGTGGGTGTGTGTAGCCAAGGTCGGTAAG
TTGAATGGCCTGCCTTGAAGCCACTGAAGCTGGGATTCCTCCCCATTAGAGTCAGCCTTCCCCCTCCCAGGGCCA
GGGCCCTGCAGAGGGGAAACCAGTGTAGCCTTGCCCGGATTCTGGGAGGAAGCAGGTTGAGGGGCTCCTGGAAAG
GCTCAGTCTCAGGAGCATGGGGATAAAGGAGAAGCATGAAATTGTCTAGCAGAGCAGGGGCAGGGTGATAAATT
GTTGATAAATTCCACTGGACTTGAGCTTGGCAGCTGAACTATTGGAGGGTGGGAGAGCCCAGCCATTACCATGGA
GACAAGAAGGGTTTTCCACCCTGGAATCAAGATGTCAGACTGGCTGGCTGCAGTGACGTGCACCTGTACTCAGGA
GGCTGAGGGGAGGATCACTGGAGCCCAGGAGTTTGAGGCTGCAGCGAGCTATGATCGCGCCACTACACTCCAGCC
TGAGCAACAGAGTGAGACCCTGTCTCTTAAAGAAAAAAAAAGTCAGACTGCTGGGACTGGCCAGGTTTCTGCCCA
CATTGGACCCACATGAGGACATGATGGAGCGCACCTGCCCCCTGGTGGACAGTCCTGGGAGAACCTCAGGCTTCC
TTGGCATCACAGGGCAGAGCCGGGAAGCGATGAATTTGGAGACTCTGTGGGCCTTGGTTCCCTTGTGTGTGTGT
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FIGURE 729B

GTTGATCCCAAGACAATGAAAGTTTGCACTGTATGCTGGACGGCATTCCTGCTTATCAATAAACCTGTTTGTTTT
AAAAAAAA

FIGURE 730

MAPVAVWAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPGQHAKVFCTKTSDTVC
DSCEDSTYTQLWNWVPECLSCGSRCSSDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPLRKCRPGFGVA
RPGTETSDVVCKPCAPGTFSNTTSSTDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQ
HTQPTPEPSTAPSTSFLLPMGPSPPAEGSTGDFALPVGLIVGVTALGLLIIGVVNCVIMTQVKKKPLCLQREAKV
PHLPADKARGTQGPEQQHLLITAPSSSSSSLESSASALDRRAPTRNQPQAPGVEASGAGEARASTGSSDSSPGGH
GTQVNVTCIVNVCSSSDHSSQCSSQASSTMGDTDSSPSESPKDEQVPFSKEECAFRSQLETPETLLGSTEEKPLP
LGVPDAGMKPS

FIGURE 731A

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GGCGCGGGCGGCCTGGAGCCCCGGGAGCGGCGCGCGCGGTCCCGGCCCAGCCGGCTCTCCTGGCCTCGCGCTGCA
CATTCTCTCCTGGCGGCGGCGCCACCTGCAGTAGCGTTCGCCCGAACATGGCGACACGGAGCAGCAGGAGGGAGT
CGCGACTCCCGTTCCTATTCACCCTGGTCGCACTGCTGCCGCCCGGAGCTCTCTGCGAAGTCTGGACGCAGAGGC
TGCACGGCGGCAGCGCGCCCTTGCCCCAGGACCGGGGCTTCCTCGTGGTGCAGGGCGACCCGCGCGAGCTGCGGC
TGTGGGCGCGCGGGGATGCCAGGGGGGCGAGCCGCGCGGACGAGAAGCCGCTCCGGAGGAAACGGAGCGCTGCCC
TGCAGCCCGAGCCCATCAAGGTGTACGGACAGGTTAGTCTGAATGATTCCCACAATCAGATGGTGGTGCACTGGG
CTGGAGAGAAAAGCAACGTGATCGTGGCCTTGGCCCGAGATAGCCTGGCATTGGCGAGGCCCAAGAGCAGTGATG
TGTACGTGTCTTACGACTATGGAAAATCATTCAAGAAAATTTCAGACAAGTTAAACTTTGGCTTGGGAAATAGGA
GTGAAGCTGTTATCGCCCAGTTCTACCACAGCCCTGCGGACAACAAGCGGTACATCTTTGCAGACGCTTATGCCC
AGTACCTCTGGATCACGTTTGACTTCTGCAACACTCTTCAAGGCTTTTCCATCCCATTTCGGGCAGCTGATCTCC
TCCTACACAGTAAGGCCTCCAACCTTCTCTTGGGCTTTGACAGGTCCCACCCCAACAAGCAGCTGTGGAAGTCAG
ATGACTTTGGCCAGACCTGGATCATGATTCAGGAACATGTCAAGTCCTTTTCTTGGGGAATTGATCCCTATGACA
AACCAAATACCATCTACATTGAACGACACGAACCCTCTGGCTACTCCACTGTCTTCCGAAGTACAGATTTCTTCC
AGTCCCGGGAAAACCAGGAAGTGATCCTTGAGGAAGTGAGAGATTTTCAGCTTCGGGACAAGTACATGTTTGCTA
CAAAGGTGGTGCATCTCTTGGGCAGTGAACAGCAGTCTTCTGTCCAGCTCTGGGTCTCCTTTGGCCGGAAGCCCA
TGAGAGCAGCCCAGTTTGTCACAAGACATCCTATTAATGAATATTACATCGCAGATGCCTCCGAGGACCAGGTGT
TTGTGTGTGTCAGCCACAGTAACAACCGCACCAATTTATACATCTCAGAGGCAGAGGGGCTGAAGTTCTCCCTGT
CCTTGGAGAACGTGCTCTATTACAGCCCAGGAGGGGCCGGCAGTGACACCTTGGTGAGGTATTTTGCAAATGAAC
CATTTGCTGACTTCCACCGAGTGGAAGGATTGCAAGGAGTCTACATTGCTACTCTGATTAATGGTTCTATGAATG
AGGAGAACATGAGATCGGTCATCACCTTTGACAAAGGGGGAACCTGGGAGTTTCTTCAGGCTCCAGCCTTCACGG
GATATGGAGAGAAATCAATTGTGAGCTTTCCCAGGGCTGTTCCCTTCATCTGGCTCAGCGCCTCAGTCAGCTCC
TCAACCTCCAGCTCCGGAGAATGCCCATCCTGTCCAAGGAGTCGGCTCCAGGCCTCATCATCGCCACTGGCTCAG
TGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGCTGGAGCCAGGTGGCGAGAGGCACTTC
CTGGACCTCACTACTACACATGGGGAGACCACGGCGGAATCATCACGGCCATTGCCCAGGGCATGGAAACCAACG
AGCTAAAATACAGTACCAATGAAGGGGAGACCTGGAAAACATTCATCTTCTCTGAGAAGCCAGTGTTTGTGTATG
GCCTCCTCACAGAACCTGGGGAGAAGAGCACTGTCTTCACCATCTTTGGCTCGAACAAAGAGAATGTCCACAGCT
GGCTGATCCTCCAGGTCAATGCCACGGATGCCTTGGGAGTTCCCTGCACAGAGAATGACTACAAGCTGTGGTCAC
CATCTGATGAGCGGGGGAATGAGTGTTTGCTGGGACACAAGACTGTTTTCAAACGGCGGACCCCCCATGCCACAT
GCTTCAATGGAGAGGACTTTGACAGGCCGGTGGTCGTGTCCAACTGCTCCTGCACCCGGGAGGACTATGAGTGTG
ACTTCGGTTTCAAGATGAGTGAAGATTTGTCATTAGAGGTTTGTGTTCCAGATCCGGAATTTTCTGGAAAGTCAT
ACTCCCCTCCTGTGCCTTGCCCTGTGGGTTCTACTTACAGGAGAACGAGAGGCTACCGGAAGATTTCTGGGGACA
CTTGTAGCGGAGGAGATGTTGAAGCGCGACTGGAAGGAGAGCTGGTCCCCTGTCCCCTGGCAGAAGAGAACGAGT
TCATTCTGTATGCTGTGAGGAAATCCATCTACCGCTATGACCTGGCCTCGGGAGCCACCGAGCAGTTGCCTCTCA
CCGGGCTACGGGCAGCAGTGGCCCTGGACTTTGACTATGAGCACAACTGTTTGTATTGGTCCGACCTGGCCTTGG
ACGTCATCCAGCGCCTCTGTTTGAATGGAAGCACAGGGCAAGAGGTGATCATCAATTCTGGCCTGGAGACAGTAG
AAGCTTTGGCTTTTGAACCCCTCAGCCAGCTGCTTTACTGGGTAGATGCAGGCTTCAAAAAGATTGAGGTAGCTA
ATCCAGATGGCGACTTCCGACTCACAATCGTCAATTCCTCTGTGCTTGATCGTCCCAGGGCTCTGGTCCTCGTGC
CCCAAGAGGGGGTGATGTTCTGGACAGACTGGGGAGACCTGAAGCCTGGGATTTATCGGAGCAATATGGATGGTT
CTGCTGCCTATCACCTGGTGTCTGAGGATGTGAAGTGGCCCAATGGCATCTCTGTGGACGACCAGTGGATTTACT
GGACGGATGCCTACCTGGAGTGCATAGAGCGGATCACGTTCAGTGGCCAGCAGCGCTCTGTCATTCTGGACAACC
TCCCGCACCCCTATGCCATTGCTGTCTTTAAGAATGAAATCTACTGGGATGACTGGTCACAGCTCAGCATATTCC
GAGCTTCCAAATACAGTGGGTCCCAGATGGAGATTCTGGCAAACCAGCTCACGGGGCTCATGGACATGAAGATTT
TCTACAAGGGGAAGAACACTGGAAGCAATGCCTGTGTGCCCAGGCCATGCAGCCTGCTGTGCCTGCCCAAGGCCA
ACAACAGTAGAAGCTGCAGGTGTCCAGAGGATGTGTCCAGCAGTGTGCTTCCATCAGGGGACCTGATGTGTGACT
GCCCTCAGGGCTATCAGCTCAAGAACAATACCTGTGTCAAAGAAGAGAACACCTGTCTTCGCAACCAGTATCGCT
GCAGCAACGGGAACTGTATCAACAGCATTTGGTGGTGTGACTTTGACAACGACTGTGGAGACATGAGCGATGAGA
GAAACTGCCCTACCACCATCTGTGACCTGGACACCCAGTTTCGTTGCCAGGAGTCTGGGACTTGTATCCCACTGT
CCTATAAATGTGACCTTGAGGATGACTGTGGAGACAACAGTGATGAAAGTCATTGTGAAATGCACCAGTGCCGGA
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FIGURE 731B

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GTGACGAGTACAACTGCAGTTCCGGCATGTGCATCCGCTCCTCCTGGGTATGTGACGGGGACAACGACTGCAGGG
ACTGGTCTGATGAAGCCAACTGTACCGCCATCTATCACACCTGTGAGGCCTCCAACTTCCAGTGCCGAAACGGGC
ACTGCATCCCCCAGCGGTGGGCGTGTGACGGGGATACGGACTGCCAGGATGGTTCCGATGAGGATCCAGTCAACT
GTGAGAAGAAGTGCAATGGATTCCGCTGCCCAAACGGCACTTGCATCCCATCCAGCAAACATTGTGATGGTCTGC
GTGATTGCTCTGATGGCTCCGATGAACAGCACTGCGAGCCCCTCTGTACGCACTTCATGGACTTTGTGTGTAAGA
ACCGCCAGCAGTGCCTGTTCCACTCCATGGTCTGTGACGGAATCATCCAGTGCCGCGACGGGTCCGATGAGGATG
CGGCGTTTGCAGGATGCTCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCGGTTTCCAGTGTCAGAATG
GAGTGTGCATCAGTTTGATTTGGAAGTGCGACGGGATGGATGATTGCGGCGATTATTCTGATGAAGCCAACTGCG
AAAACCCCACAGAAGCCCCAAACTGCTCCCGCTACTTCCAGTTTCGGTGTGAGAATGGCCACTGCATCCCCAACA
GATGGAAATGTGACAGGGAGAACGACTGTGGGGACTGGTCTGATGAGAAGGATTGTGGAGATTCACATATTCTTC
CCTTCTCGACTCCTGGGCCCTCCACGTGTCTGCCCAATTACTACCGCTGCAGCAGTGGGACCTGCGTGATGGACA
CCTGGGTGTGCGACGGGTACCGAGATTGTGCAGATGGCTCTGACGAGGAAGCCTGCCCCTTGCTTGCAAACGTCA
CTGCTGCCTCCACTCCCACCCAACTTGGGCGATGTGACCGATTTGAGTTCGAATGCCACCAACCGAAGACGTGTA
TTCCCAACTGGAAGCGCTGTGACGGCCACCAAGATTGCCAGGATGGCCGGGACGAGGCCAATTGCCCCACACACA
GCACCTTGACTTGCATGAGCAGGGAGTTCCAGTGCGAGGACGGGGAGGCCTGCATTGTGCTCTCGGAGCGCTGCG
ACGGCTTCCTGGACTGCTCGGACGAGAGCGATGAAAAGGCCTGCAGTGATGAGTTGACTGTGTACAAAGTACAGA
ATCTTCAGTGGACAGCTGACTTCTCTGGGGATGTGACTTTGACCTGGATGAGGCCCAAAAAAATGCCCTCTGCTT
CTTGTGTATATAATGTCTACTACAGGGTGGTTGGAGAGAGCATATGGAAGACTCTGGAGACCCACAGCAATAAGA
CAAACACTGTATTAAAAGTCTTGAAACCAGATACCACGTATCAGGTTAAAGTACAGGTTCAGTGTCTCAGCAAGG
CACACAACACCAATGACTTTGTGACCCTGAGGACCCCAGAGGGGATTGCCAGATGCCCCTCGAAATCTCCAGCTGT
CACTCCCCAGGGAAGCAGAAGGTGTGATTGTAGGCCACTGGGCTCCTCCCATCCACACCCATGGCCTCATCCGTG
AGTACATTGTAGAATACAGCAGGAGTGGTTCCAAGATGTGGGCCTCCCAGAGGGCTGCTAGTAACTTTACAGAAA
TCAAGAACTTATTGGTCAACACTCTATACACCGTCAGAGTGGCTGCGGTGACTAGTCGTGGAATAGGAAACTGGA
GCGATTCTAAATCCATTACCACCATAAAAGGAAAAGTGATCCCACCACCAGATATCCACATTGACAGCTATGGTG
AAAATTATCTAAGCTTCACCCTGACCATGGAGAGTGATATCAAGGTGAATGGCTATGTGGTGAACCTTTTCTGGG
CATTTGACACCCACAAGCAAGAGAGGAGAACTTTGAACTTCCGAGGAAGCATATTGTCACACAAAGTTGGCAATC
TGACAGCTCATACATCCTATGAGATTTCTGCCTGGGCCAAGACTGACTTGGGGGATAGCCCTCTGGCATTTGAGC
ATGTTATGACCAGAGGGGTTCGCCCACCTGCACCTAGCCTCAAGGCCAAAGCCATCAACCAGACTGCAGTGGAAT
GTACCTGGACCGGCCCCCGGAATGTGGTTTATGGTATTTTCTATGCCACGTCCTTTCTTGACCTCTATCGCAACC
CGAAGAGCTTGACTACTTCACTCCACAACAAGACGGTCATTGTCAGTAAGGATGAGCAGTATTTGTTTCTGGTCC
GTGTAGTGGTACCCTACCAGGGGCCATCCTCTGACTACGTTGTAGTGAAGATGATCCCGGACAGCAGGCTTCCAC
CCCGTCACCTGCATGTGGTTCATACGGGCAAAAACCTCCGTGGTCATCAAGTGGGAATCACCGTATGACTCTCCTG
ACCAGGACTTGTTGTATGCAATTGCAGTCAAAGATCTCATAAGAAAGACTGACAGGAGCTACAAAGTAAAATCCC
GTAACAGCACTGTGGAATACACCCTTAACAAGTTGGAGCCTGGCGGGAAATACCACATCATTGTCCAACTGGGGA
ACATGAGCAAAGATTCCAGCATAAAAATTACCACAGTTTCATTATCAGCACCTGATGCCTTAAAAATCATAACAG
AAAATGATCATGTTCTTCTGTTTTGGAAAAGCCTGGCTTTAAAGGAAAGCATTTTAATGAAAGCAGGGGCTATG
AGATACACATGTTTGATAGTGCCATGAATATCACAGCTTACCTTGGGAATACTACTGACAATTTCTTTAAAATTT
CCAACCTGAAGATGGGTCATAATTACACGTTCACCGTCCAAGCAAGATGCCTTTTTGGCAACCAGATCTGTGGGG
AGCCTGCCATCCTGCTGTACGATGAGCTGGGGTCTGGTGCAGATGCATCTGCAACGCAGGCTGCCAGATCTACGG
ATGTTGCTGCTGTGGTGGTGCCCATCTTATTCCTGATACTGCTGAGCCTGGGGGTGGGGTTTGCCATCCTGTACA
CGAAGCACCGGAGGCTGCAGAGCAGCTTCACCGCCTTCGCCAACAGCCACTACAGCTCCAGGCTGGGGTCCGCAA
TCTTCTCCTCTGGGGATGACCTGGGGGAAGATGATGAAGATGCCCCTATGATAACTGGATTTTCAGATGACGTCC
CCATGGTGATAGCCTGAAAGAGCTTTCCTCACTAGAAACCAAATGGTGTAAATATTTTATTTGATAAAGATAGTT
GATGGTTTATTTTAAAAGATGCACTTTGAGTTGCAATATGTTATTTTTATATGGGCCAAAAACAAAAAACAAAAA
AAAAAA
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FIGURE 732

MATRSSRRESRLPFLFTLVALLPPGALCEVWTQRLHGGSAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEK
PLRRKRSAALQPEPIKVYGQVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARPKSSDVYVSYDYGKSFKKISD
KLNFGLGNRSEAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGFSIPFRAADLLLHSKASNLLLGFDRS
HPNKQLWKSDDFGQTWIMIQEHVKSFSWGIDPYDKPNTIYIERHEPSGYSTVFRSTDFFQSRENQEVILEEVRDF
QLRDKYMFATKVVHLLGSEQQSSVQLWVSFGRKPMRAAQFVTRHPINEYYIADASEDQVFVCVSHSNNRTNLYIS
EAEGLKFSLSLENVLYYSPGGAGSDTLVRYFANEPFADFHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTW
EFLQAPAFTGYGEKINCELSQGCSLHLAQRLSQLLNLQLRRMPILSKESAPGLIIATGSVGKNLASKTNVYISSS
AGARWREALPGPHYYTWGDHGGIITAIAQGMETNELKYSTNEGETWKTFIFSEKPVFVYGLLTEPGEKSTVFTIF
GSNKENVHSWLILQVNATDALGVPCTENDYKLWSPSDERGNECLLGHKTVFKRRTPHATCFNGEDFDRPVVVSNC
SCTREDYECDFGFKMSEDLSLEVCVPDPEFSGKSYSPPVPCPVGSTYRRTRGYRKISGDTCSGGDVEARLEGELV
PCPLAEENEFILYAVRKSIYRYDLASGATEQLPLTGLRAAVALDFDYEHNCLYWSDLALDVIQRLCLNGSTGQEV
IINSGLETVEALAFEPLSQLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLVPQEGVMFWTDWGDLKP
GIYRSNMDGSAAYHLVSEDVKWPNGISVDDQWIYWTDAYLECIERITFSGQQRSVILDNLPHPYAIAVFKNEIYW
DDWSQLSIFRASKYSGSQMEILANQLTGLMDMKIFYKGKNTGSNACVPRPCSLLCLPKANNSRSCRCPEDVSSSV
LPSGDLMCDCPQGYQLKNNTCVKEENTCLRNQYRCSNGNCINSIWWCDFDNDCGDMSDERNCPTTICDLDTQFRC
QESGTCIPLSYKCDLEDDCGDNSDESHCEMHQCRSDEYNCSSGMCIRSSWVCDGDNDCRDWSDEANCTAIYHTCE
ASNFQCRNGHCIPQRWACDGDTDCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLRDCSDGSDEQHCEPLC
THFMDFVCKNRQQCLFHSMVCDGIIQCRDGSDEDAAFAGCSQDPEFHKVCDEFGFQCQNGVCISLIWKCDGMDDC
GDYSDEANCENPTEAPNCSRYFQFRCENGHCIPNRWKCDRENDCGDWSDEKDCGDSHILPFSTPGPSTCLPNYYR
CSSGTCVMDTWVCDGYRDCADGSDEEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRCDGHQDCQDG
RDEANCPTHSTLTCMSREFQCEDGEACIVLSERCDGFLDCSDESDEKACSDELTVYKVQNLQWTADFSGDVTLTW
MRPKKMPSASCVYNVYYRVVGESIWKTLETHSNKTNTVLKVLKPDTTYQVKVQVQCLSKAHNTNDFVTLRTPEGL
PDAPRNLQLSLPREAEGVIVGHWAPPIHTHGLIREYIVEYSRSGSKMWASQRAASNFTEIKNLLVNTLYTVRVAA
VTSRGIGNWSDSKSITTIKGKVIPPPDIHIDSYGENYLSFTLTMESDIKVNGYVVNLFWAFDTHKQERRTLNFRG
SILSHKVGNLTAHTSYEISAWAKTDLGDSPLAFEHVMTRGVRPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYA
TSFLDLYRNPKSLTTSLHNKTVIVSKDEQYLFLVRVVVPYQGPSSDYVVVKMIPDSRLPPRHLHVVHTGKTSVVI
KWESPYDSPDQDLLYAIAVKDLIRKTDRSYKVKSRNSTVEYTLNKLEPGG

FIGURE 733

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GGCACGAGGCTGCGCCGGAAGTCCCTAGCCAGGCCTGGCGGTAACCTTGGGGGCCTCACTGCAGCCGCCGCTGCT
GTTGGAGTGGGCTTTGCGAGTCTGAACGTTGGCGGGGCTAGGCTCGTTAACTGCCGAGAGCCTCCGGGTTTGCGG
TGGAGGACGCTGAGGCCCGTGGGGGGCAGGCACCCGGGCGCCGGGCCTCCCAGCCGACATGTCTCTAGTGGCGGA
AGCCTTCGTCTCCCAGATTGCAGCTGCAGAACCTTGGCCTGAAAATGCTACATTATATCAGCAATTGAAAGGGGA
GCAAATTTTACTTTCTGACAATGCAGCTTCTCTTGCAGTGCAGGCCTTTTTGCAAATGTGTAACTTGCCTATCAA
AGTAGTTTGTAGGGCAAATGCAGAATATATGTCTCCATCTGGTAAAGTACCTTTTATTCATGTGGGAAATCAAGT
AGTATCAGAACTTGGTCCAATAGTCCAATTTGTTAAAGCCAAGGGCCATTCTCTTAGTGATGGGCTGGAGGAAGT
CCAAAAAGCAGAAATGAAAGCTTACATGGAATTAGTCAACAATATGCTGTTGACTGCAGAGCTGTATCTTCAGTG
GTGTGATGAAGCTACAGTAGGGGAGATCACTCATGCTAGGTATGGATCTCCTTACCCTTGGCCTCTGAATCATAT
TTTGGCCTATCAAAAACAGTGGGAAGTCAAACGTAAGATGAAAGCTATTGGATGGGGAAAGAAGACTCTGGACCA
GGTCTTAGAGGATGTAGACCAGTGCTGTCAAGCTCTCTCTCAAAGACTGGGAACACAACCGTATTTCTTCAATAA
GCAGCCTACTGAACTTGACGCACTGGTATTTGGCCATCTATACACCATTCTTACCACACAATTGACAAATGATGA
ACTTTCTGAGAAGGTGAAAAACTATAGCAACCTCCTTGCTTTCTGTAGGAGAATTGAACAGCACTATTTTGAAGA
TCGTGGTAAAGGCAGGCTGTCATAGAGTTATGTGTTAGTCTCAGGAGTCTTAACTTTTGAAATATGTTTTACTTG
AATGTTACATTAGATATTGGTGTCAGAATTTTAAAACCAAATTACTGCTTTTTGAAACCTCAAATTATATAATGT
ATCTTATGTATGTGCTTTATATTGTTATTTGTGTATACATTAAAATAATTCTGAATTATTTAATCTGATATGTTG
TATTCTGTATCTTGAAATTTTTGTTTCCTTGAAACATGCATGCATTTAAAAATAAAGCTTAAACAACTGT
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FIGURE 734

MSLVAEAFVSQIAAAEPWPENATLYQQLKGEQILLSDNAASLAVQAFLQMCNLPIKVVCRANAEYMSPSGKVPFI
HVGNQVVSELGPIVQFVKAKGHSLSDGLEEVQKAEMKAYMELVNNMLLTAELYLQWCDEATVGEITHARYGSPYP
WPLNHILAYQKQWEVKRKMKAIGWGKKTLDQVLEDVDQCCQALSQRLGTQPYFFNKQPTELDALVFGHLYTILTT
QLTNDELSEKVKNYSNLLAFCRRIEQHYFEDRGKGRLS

FIGURE 735A

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GCGGCCGCGTCGACGCGGCGGCGGCAGCGGCGTCGGCTCGGGGTTCTCCGGGAGAGGGGGAGTGCGCGGCGGCCG
CAGCTGCCACAAACCAGGTGAAGCTTTGTTCTAAGAATATTTGTTTCATCTAGTTTATGAGTCCAAATGATATAG
ACTGTAAATGTCACAGCAGTGGTGAAAGACTGCTCGGTCATGAGCACCGACAGTAACTCACTGGCACGTGAATTT
CTGACCGATGTCAACCGGCTTTGCAATGCAGTGGTCCAGAGGGTGGAGGCCAGGGAGGAAGAAGAGGAGGAGACG
CACATGGCAACCCTTGGACAGTACCTTGTCCATGGTCGAGGATTTCTATTACTTACCAAGCTAAATTCTATAATT
GATCAGGCATTGACATGTAGAGAAGAACTCCTGACTCTTCTTCTGTCTCTCCTTCCACTGGTATGGAAGATACCT
GTCCAAGAAGAAAAGGCAACAGATTTTAACCTACCGCTCTCAGCAGATATAATCCTGACCAAAGAAAAGAACTCA
AGTTCACAAAGATCCACTCAGGAAAAATTACATTTAGAAGGAAGTGCCCTGTCTAGTCAGGTTTCTGCAAAGTA
AATGTTTTTCGAAAAAGCAGACGACAGCGTAAAATTACCCATCGCTATTCTGTAAGAGATGCAAGAAAGACACAG
CTCTCCACCTCAGATTCAGAAGCCAATTCAGATGAAAAAGGCATAGCAATGAATAAGCATAGAAGGCCCCATCTG
CTGCATCATTTTTTAACATCGTTTCCTAAACAAGACCACCCCAAAGCTAAACTTGACCGCTTAGCAACCAAAGAA
CAGACTCCTCCAGATGCTATGGCTTTGGAAAATTCCAGAGAGATTATTCCAAGACAGGGGTCAAACACTGACATT
TTAAGTGAGCCAGCTGCCTTGTCTGTTATCAGTAACATGAACAATTCTCCATTTGACTTATGTCATGTTTTGTTA
TCTTTATTAGAAAAAGTTTGTAAGTTTGACGTTACCTTGAATCATAATTCTCCTTTAGCAGCCAGTGTAGTGCCC
ACACTAACTGAATTCCTAGCAGGCTTTGGGGACTGCTGCAGTCTGAGCGACAACTTGGAGAGTCGAGTAGTTTCT
GCAGGTTGGACCGAAGAACCGGTGGCTTTGATTCAAAGGATGCTCTTTCGAACAGTGTTGCATCTTCTGTCAGTA
GATGTTAGTACTGCAGAGATGATGCCAGAAAATCTTAGGAAAAATTTAACTGAATTGCTTAGAGCAGCTTTAAAA
ATTAGAATATGCCTAGAAAAGCAGCCTGACCCTTTTGCACCAAGACAAAAGAAAACACTGCAGGAGGTTCAGGAA
GATTTTGTGTTTTCAAAGTATCGTCATAGAGCCCTTCTTTTACCTGAGCTTTTGGAAGGAGTTCTTCAGATTCTG
ATCTGTTGTCTTCAAAGTGCAGCTTCAAATCCCTTCTACTTCAGTCAAGCCATGGATTTGGTTCAAGAATTCATT
CAGCATCATGGATTTAATTTATTTGAAACAGCAGTTCTTCAAATGGAATGGCTGGTTTTAAGAGATGGAGTTCCT
CCCGAGGCCTCAGAGCATTTGAAAGCCCTAATAAATAGTGTGATGAAAATAATGAGCACTGTCAAAAAAGTGAAA
TCAGAGCAACTTCATCATTCGATGTGTACAAGAAAAAGGCACAGACGATGTGAATATTCTCATTTTATGCATCAT
CACCGAGATCTCTCAGGTCTTCTGGTTTCGGCTTTTAAAAACCAGGTTTCCAAAAACCCATTTGAAGAGACTGCA
GATGGAGATGTTTATTATCCTGAGCGGTGCTGTTGCATTGCAGTGTGTGCCCATCAGTGCTTGCGCTTACTACAG
CAGGCTTCCTTGAGCAGCACTTGTGTCCAGATCCTATCGGGTGTTCATAACATTGGAATATGCTGTTGTATGGAT
CCCAAATCTGTAATCATTCCTTTGCTCCATGCTTTTAAATTGCCAGCACTGAAAAATTTTCAGCAGCATATATTG
AATATCCTTAACAAACTTATTTTGGATCAGTTAGGAGGAGCAGAGATATCACCAAAAATTAAAAAAGCAGCTTGT
AATATTTGTACTGTTGACTCTGACCAACTAGCCCAATTAGAAGAGACACTGCAGGGAAACTTATGTGATGCTGAA
CTCTCCTCAAGTTTATCCAGTCCTTCTTACAGATTTCAAGGGATCCTGCCCAGCAGTGGATCTGAAGATTTGTTG
TGGAAATGGGATGCTTTAAAGGCTTATCAGAACTTTGTTTTTGAAGAAGACAGATTACATAGTATACAGATTGCA
AATCACATTTGCAATTTAATCCAGAAAGGCAATATAGTTGTTCAGTGGAATTATATAATTACATATTTAATCCT
GTGCTCCAAAGAGGAGTTGAATTAGCACATCATTGTCAACACCTAAGCGTTACTTCAGCTCAAAGTCATGTATGT
AGCCATCATAACCAGTGCTTGCCTCAGGACGTGCTTCAGATTTATGTAAAAACTCTGCCTATCCTGCTTAAATCC
AGGGTAATAAGAGATTTGTTTTTGAGTTGTAATGGAGTAAGTCAAATAATCGAATTAAATTGCTTAAATGGTATT
CGAAGTCATTCTCTAAAAGCATTTGAAACTCTGATAATCAGCCTAGGGGAGCAACAGAAAGATGCCTCAGTTCCA
GATATTGATGGGATAGACATTGAACAGAAGGAGTTGTCCTCTGTACATGTGGGTACTTCTTTTCATCATCAGCAA
GCTTATTCAGATTCTCCTCAGAGTCTCAGCAAATTTTATGCTGGCCTCAAAGAAGCTTATCCAAAGAGACGGAAG
ACTGTTAACCAAGATGTTCATATCAACACAATAAACCTATTCCTCTGTGTGGCTTTTTTATGCGTAAGTAAAGAA
GCAGAGTCTGACAGGGAGTCGGCCAATGACTCAGAAGATACTTCTGGCTATGACAGCACAGCCAGCGAGCCTTTA
AGTCATATGCTGCCATGTATATCTCTCGAGAGCCTTGTCTTGCCTTCTCCTGAACATATGCACCAAGCAGCAGAC
ATTTGGTCTATGTGTCGTTGGATCTACATGTTGAGTTCAGTGTTCCAGAAACAGTTTTATAGGCTTGGTGGTTTC
CGAGTATGCCATAAGTTAATATTTATGATAATACAGAAACTGTTCAGAAGTCACAAAGAGGAGCAAGGAAAAAAG
GAGGGAGATACAAGTGTAAATGAAAACCAGGATTTAAACAGAATTTCTCAACCTAAGAGAACTATGAAGGAAGAT
TTATTATCTTTGGCTATAAAAAGTGACCCCATACCATCAGAACTAGGTAGTCTAAAAAAGAGTGCTGACAGTTTA
GGTAAATTAGAGTTACAGCATATTTCTTCCATAAATGTGGAAGAAGTTTCAGCTACTGAAGCCGCTCCCGAGGAA
GCAAAGCTATTTACAAGTCAAGAAAGTGAGACCTCACTTCAAAGTATACGACTTTTGGAAGCCCTTCTGGCCATT
TGTCTTCATGGTGCCAGAACTAGTCAACAGAAGATGGAATTGGAGTTACCTAATCAGAACTTGTCTGTGGAAAGT
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FIGURE 735B

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ATATTATTTGAAATGAGGGACCATCTTTCCCAGTCAAAGGTGATTGAAACACAACTAGCAAAGCCGTTATTTGAT
GCCCTGCTTCGAGTTGCCCTCGGGAATTATTCAGCAGATTTTGAACATAATGATGCTATGACTGAGAAGAGTCAT
CAATCTGCAGAAGAATTGTCATCCCAGCCTGGTGATTTTTCAGAAGAAGCTGAGGATTCTCAGTGTTGTAGTTTT
AAACTTTTAGTTGAAGAAGAAGGTTACGAAGCAGATAGTGAAAGCAATCCTGAAGATGGCGAAACCCAGGATGAT
GGGGTAGACTTAAAGTCTGAAACAGAAGGTTTCAGTGCATCAAGCAGTCCAAATGACTTACTCGAAAACCTCACT
CAAGGGGAAATAATTTATCCTGAGATTTGTATGCTGGAATTAAATTTGCTTTCTGCTAGTAAAGCCAAACTTGAT
GTGCTTGCCCATGTATTTGAGAGTTTTTTGAAAATTATTAGGCAGAAAGAAAAGAATGTTTTTCTGCTCATGCAA
CAGGGAACTGTGAAAAATCTTTTAGGAGGGTTCTTGAGTATTTTAACACAGGATGATTCTGATTTTCAAGCATGC
CAGAGAGTATTGGTGGATCTTTTGGTATCTTTGATGAGTTCAAGAACATGTTCAGAAGAGCTAACCCTTCTTTTG
AGAATATTTCTGGAGAAATCTCCTTGTACAAAAATTCTTCTTCTGGGTATTCTGAAAATTATTGAAAGTGATACT
ACTATGAGCCCTTCACAGTATCTAACCTTCCCTTTACTGCACGCTCCAAATTTAAGCAACGGTGTTTCATCACAA
AAGTATCCTGGGATTTTAAACAGTAAGGCCATGGGTTTATTGAGAAGAGCACGAGTTTCACGGAGCAAGAAAGAG
GCTGATAGAGAGAGTTTTCCCCATCGGCTGCTTTCATCTTGGCACATAGCCCCAGTCCACCTGCCGTTGCTGGGG
CAAAACTGCTGGCCACACCTATCAGAAGGTTTCAGTGTTTCCCTGTGGTTTAATGTGGAGTGTATCCATGAAGCT
GAGAGTACTACAGAAAAAGGAAAGAAGATAAAGAAAAGAAACAAATCATTAATTTTACCAGATAGCAGTTTTGAT
GGTACAGAGAGCGACAGACCAGAAGGTGCAGAGTACATAAATCCTGGTGAAAGACTCATAGAAGAAGGATGTATT
CATATAATTTCACTGGGATCCAAAGCGTTGATGATCCAAGTGTGGGCTGATCCCCACAATGCCACTCTTATCTTT
CGTGTGTGCATGGATTCAAATGATGACATGAAAGCTGTTTTACTAGCACAGGTTGAATCACAGGAGAATATTTTC
CTCCCAAGCAAATGGCAACATTTAGTACTCACCTACTTACAGCAGCCCCAAGGGAAAAGGAGGATTCATGGGAAA
ATCTCCATATGGGTCTCTGGACAGAGGAAGCCTGATGTTACTTTGGATTTTATGCTTCCAAGAAAAACAAGTTTG
TCATCTGATAGCAATAAAACATTTTGCATGATTGGCCATTGTTTATCATCCCAAGAAGAGTTTTTGCAGTTGGCT
GGAAAATGGGACCTGGGAAATTTGCTTCTCTTCAACGGAGCTAAGGTTGGTTCACAAGAGGCCTTTTATCTGTAT
GCTTGTGGACCCAACCATACATCTGTAATGCCATGTAAGTATGGCAAGCCAGTCAATGACTACTCCAAATATATT
AATAAAGAAATTTTGCGATGTGAACAAATCAGAGAACTTTTTATGACCAAGAAAGATGTGGATATTGGTCTCTTA
ATTGAAAGTCTTTCAGTTGTTTATACAACTTACTGTCCTGCTCAGTATACCATCTATGAACCAGTGATTAGACTT
AAAGGTCAAATGAAAACCCAACTCTCTCAAAGACCCTTCAGCTCAAAAGAAGTTCAGAGCATCTTATTAGAACCT
CATCATCTAAAGAATCTCCAACCTACTGAATATAAAACTATTCAAGGCATTCTGCACGAAATTGGTGGAACTGGC
ATATTTGTTTTTCTCTTTGCCAGGGTTGTTGAACTCAGTAGCTGTGAAGAAACTCAAGCATTAGCACTGCGAGTT
ATACTCTCATTAATTAAATACAACCAACAAAGAGTACATGAATTAGAAAATTGTAATGGACTTTCTATGATTCAT
CAGGTGTTGATCAAACAAAAATGCATTGTTGGGTTTTACATTTTGAAGACCCTTCTTGAAGGATGCTGTGGTGAA
GATATTATTTATATGAATGAGAATGGAGAGTTTAAGTTGGATGTAGACTCTAATGCTATAATCCAAGATGTTAAG
CTGTTAGAGGAACTATTGCTTGACTGGAAGATATGGAGTAAAGCAGAGCAAGGTGTTTGGGAAACTTTGCTAGCA
GCTCTAGAAGTCCTCATCAGAGCAGATCACCACCAGCAGATGTTTAATATTAAGCAGTTATTGAAAGCTCAAGTG
GTTCATCACTTTCTACTGACTTGTCAGGTTTTGCAGGAATACAAAGAGGGGCAACTCACACCCATGCCCCGAGAG
GTTTGTAGATCATTTGTGAAAATTATAGCAGAAGTCCTTGGATCTCCTCCAGATTTGGAATTATTGACAATTATC
TTCAATTTCCTTTTAGCAGTTCACCCTCCTACTAATACTTACGTTTGTCACAATCCCACGAACTTCTACTTTTCT
TTGCACATAGATGGCAAGATCTTTCAGGAGAAAGTGCGGTCAATCATGTACCTGAGGCATTCCAGCAGTGGAGGA
AGGTCCCTTATGAGCCCTGGATTTATGGTAATAAGCCCATCTGGTTTTACTGCTTCACCATATGAAGGAGAGAAT
TCCTCTAATATTATTCCACAACAGATGGCCGCCCATATGCTGCGTTCTAGAAGCCTACCAGCATTCCCTACTTCT
TCACTACTAACGCAATCACAAAAACTGACTGGAAGTTTGGGTTGTAGTATCGACAGGTTACAAAATATTGCAGAT
ACTTATGTTGCCACCCAATCAAAGAAACAAAATTCTTTGGGGAGTTCCGACACACTGAAAAAAGGCAAAGAGGAC
GCATTCATCAGTAGCTGTGAGTCTGCAAAAACTGTTTGTGAAATGGAAGCTGTCCTCTCAGCCCAGGTCTCTGTC
AGTGATGTCCCAAAGGGAGTGCTGGGATTTCCAGTGGTCAAAGCAGATCATAAACAGTTGGGAGCAGAACCCAGG
TCAGAAGATGACAGTCCTGGGGATGAGTCCTGCCCACGCCGACCTGATTACCTAAAGGGATTGGCCTCCTTCCAG
CGAAGCCACAGCACTATTGCAAGCCTTGGGCTAGCTTTTCCTTCACAGAACGGATCTGCAGCTGTTGGCCGTTGG
CCAAGTCTTGTTGATAGAAACACTGATGATTGGGAAAACTTTGCCTATTCTCTTGGTTATGAGCCAAATTACAAC
CGAACTGCAAGTGCTCACAGTGTAACTGAAGACTGTTTGGTACCTATATGCTGTGGATTATATGAACTCCTAAGT
GGGGTTCTTCTTATCCTGCCTGATGTTTTGCTTGAAGATGTGATGGACAAGCTTATTCAAGCAGATACACTTTTG
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FIGURE 735C

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GTCCTCGTTAACCACCCATCACCAGCTATACAACAAGGTGTTATTAAACTATTAGATGCATATTTTGCTAGAGCA
TCTAAGGAACAAAAAGATAAATTTCTGAAGAATCGTGGATTTTCCTTGCTAGCCAACCAGTTGTATCTTCATCGA
GGAACTCAAGAATTGTTAGAATGCTTCATCGAAATGTTCTTTGGTCGACATATTGGCCTTGATGAAGAATTTGAT
CTGGAAGATGTGAGAAACATGGGATTGTTTCAGAAGTGGTCTGTCATTCCTATTCTGGGACTAATAGAGACCTCT
CTATATGACAACATACTCTTGCATAATGCTCTTTTACTTCTTCTCCAAATTTTAAATTCTTGTTCTAAGGTAGCA
GATATGTTGCTGGATAATGGTCTACTCTATGTGTTATGTAATACAGTAGCAGCCCTGAATGGATTAGAAAAGAAC
ATTCCCATGAGTGAATATAAATTGCTTGCTTGTGATATACAGCAACTTTTCATAGCAGTTACAATTCATGCTTGC
AGTTCCTCAGGCTCACAATATTTTAGGGTTATTGAAGACCTTATTGTAATGCTTGGATATCTTCAAAATAGCAAA
AACAAGAGGACACAAAATATGGCTGTTGCACTACAGCTTAGAGTTCTCCAGGCTGCTATGGAATTTATAAGGACC
ACCGCAAATCATGACTCTGAAAACCTCACAGATTCACTCCAGTCACCTTCTGCTCCCCATCATGCAGTAGTTCAA
AAGCGGAAAAGCATTGCTGGTCCTCGAAAATTTCCCCTTGCTCAAACTGAATCGCTTCTGATGAAAATGCGTTCA
GTGGCAAATGATGAGCTTCATGTGATGATGCAACGGAGAATGAGCCAAGAGAACCCTAGCCAAGCAACTGAAACG
GAACTTGCGCAGAGACTACAGAGGCTCACTGTTTTAGCAGTCAACAGGATTATTTATCAAGAATTTAATTCAGAC
ATTATTGACATTTTGAGAACTCCAGAAAATGTAACTCAAAGCAAGACCTCAGTTTTCCAGACCGAAATTTCTGAG
GAAAATATTCATCATGAACAGTCTTCTGTTTTCAATCCATTTCAGAAAGAAATTTTTACATATCTGGTAGAAGGA
TTCAAAGTATCTATTGGTTCAAGTAAAGCCAGTGGTTCCAAGCAGCAATGGACTAAAATTCTGTGGTCTTGTAAG
GAGACCTTCCGAATGCAGCTTGGGAGACTACTAGTGCATATTTTGTCGCCAGCCCACGCTGCACAAGAGAGAAAG
CAAATTTTTGAAATAGTTCATGAACCAAATCATCAGGAAATACTACGAGACTGTCTCAGCCCATCCCTACAACAT
GGAGCCAAGTTAGTTTTGTATTTGTCAGAGTTGATACATAATCACCAAGGTGAATTGACTGAAGAAGAGCTAGGC
ACAGCAGAACTGCTTATGAATGCTTTGAAGTTATGTGGTCACAAGTGCATCCCTCCCAGTGCATCAACAAAAGCA
GACCTTATTAAAATGATCAAAGAGGAACAAAAGAAATATGAAACTGAAGAAGGAGTGAATAAAGCTGCTTGGCAG
AAAACAGTTAACAATAATCAACAAAGTCTCTTTCAGCGTCTGGATTCAAAATCAAAGGATATATCTAAAATAGCT
GCAGATATCACCCAGGCAGTGTCTCTCTCCCAAGGAAATGAGAGAAAAAAGGTGATCCAGCATATTAGAGGAATG
TATAAAGTAGATTTGAGTGCCAGCAGACATTGGCAGGAACTTATTCAGCAGCTGACACATGATAGAGCAGTATGG
TATGACCCCATCTACTATCCAACCTCATGGCAGTTGGATCCAACAGAAGGGCCAAATCGAGAGAGGAGACGTTTA
CAGAGATGTTATTTAACTATTCCAAATAAGTATCTCCTTAGGGATAGACAGAAATCAGAAGATGTTGTCAAACCA
CCACTCTCTTACCTGTTTGAAGACAAAACTCATTCTTCTTTCTCTTCTACTGTCAAAGACAAAGCTGCAAGTGAA
TCTATAAGAGTGAATCGAAGATGCATCAGTGTTGCACCATCTAGAGAGACAGCTGGTGAATTGTTACTAGGTAAA
TGTGGAATGTATTTTGTGGAAGATAATGCTTCTGATACAGTTGAAAGTTCGAGCCTTCAGGGAGAGTTGGAACCA
GCATCATTTTCCTGGACATATGAAGAAATTAAAGAAGTTCACAAGCGTTGGTGGCAATTGAGAGATAATGCTGTA
GAAATCTTTCTAACAAATGGCAGAACACTCCTGTTGGCATTTGATAACACCAAGGTTCGTGATGATGTATACCAC
AATATACTCACAAATAACCTCCCTAATCTTCTGGAATATGGTAACATCACCGCTCTGACAAATTTATGGTATACT
GGGCAAATTACTAATTTTGAATATTTGACTCACTTAAACAAACATGCTGGCCGATCCTTCAATGATCTCATGCAG
TATCCTGTGTTCCCATTTATACTTGCTGACTACGTTAGTGAGACACTTGACCTCAATGATCTGTTGATATACAGA
AATCTCTCTAAACCTATAGCTGTTCAGTATAAAGAAAAGAAGATCGTTATGTGGACACATACAAGTACTTGGAG
GAAGAGTACCGCAAAGGAGCCAGAGAAGATGACCCCATGCCTCCCGTGCAGCCCTATCACTATGGCTCCCACTAT
TCCAATAGCGGCACTGTGCTTCACTTCCTGGTCAGGATGCCTCCTTTCACTAAAATGTTTTTAGCCTATCAAGAT
CAAAGTTTTGACATTCCAGACAGAACTTTTCATTCTACAAATACAACTTGGCGACTCTCATCTTTTGAATCTATG
ACTGATGTGAAAGAACTTATCCCAGAGTTTTTCTATCTTCCAGAGTTCCTAGTTAACCGTGAAGGTTTTGATTTT
GGTGTGCGTCAGAATGGTGAACGGGTTAATCACGTCAACCTTCCCCCTTGGGCGCGTAATGATCCTCGTCTTTTT
ATCCTCATCCATCGGCAGGCTCTAGAGTCTGACTACGTGTCGCAGAACATCTGTCAGTGGATTGACTTGGTGTTT
GGGTATAAGCAAAAGGGGAAGGCTTCTGTTCAAGCGATCAATGTTTTTCATCCTGCTACATATTTGGAATGGAT
GTCTCTGCAGTTGAAGATCCAGTTCAGAGACGAGCGCTAGAAACCATGATAAAAACCTACGGGCAGACTCCCCGT
CAGCTGTTCCACATGGCCCATGTGAGCAGACCTGGAGCCAAGCTCAATATTGAAGGAGAGCTTCCAGCTGCTGTG
GGGTTGCTAGTGCAGTTTGCTTTCAGGGAGACCCGAGAACAGGTCAAAGAAₜTCACCTATCCGAGTCCTTTGTCA
TGGATAAAAGGCTTGAAATGGGGGGAATACGTGGGTTCCCCCAGTGCTCCAGTACCTGTGGTCTGCTTCAGCCAG
CCCCACGGAGAAAGATTTGGCTCTCTCCAGGCTCTGCCCACCAGAGCAATCTGTGGTTTGTCACGGAATTTCTGT
CTTGTGATGACATATAGCAAGGAACAAGGTGTGAGAAGCATGAACAGTACGGACATTCAGTGGTCAGCCATCCTG
```

FIGURE 735D

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AGCTGGGGATATGCTGATAATATTTTAAGGTTGAAGAGTAAACAAAGTGAGCCTCCAGTAAACTTTATTCAAAGT
TCACAACAGTACCAGGTGACTAGTTGTGCTTGGGTGCCTGACAGTTGCCAGCTGTTTACTGGAAGCAAATGCGGT
GTCATCACAGCCTACACAAACAGATTTACAAGCAGCACGCCATCAGAAATAGAAATGGAGACTCAAATACATCTC
TATGGTCACACAGAAGAGATAACCAGCTTATTTGTTTGCAAACCATACAGTATACTGATAAGTGTGAGCAGAGAC
GGAACCTGCATCATATGGGATTTAAACAGGTTATGCTATGTACAAAGTCTGGCGGGACACAAAAGCCCTGTCACA
GCTGTCTCTGCCAGTGAAACCTCAGGTGATATTGCTACTGTGTGTGATTCAGCTGGCGGAGGCAGTGACCTCAGA
CTCTGGACGGTGAACGGGGATCTCGTTGGACATGTCCACTGCAGGGAGATCATCTGTTCCGTGGCTTTCTCCAAC
CAGCCTGAGGGAGTATCTATCAATGTAATCGCTGGGGGATTAGAAAATGGAATTGTAAGGTTATGGAGCACATGG
GACTTAAAGCCTGTGAGAGAAATTACATTTCCCAAATCAAATAAGCCCATCATCAGCCTTACATTTTCTTGTGAT
GGCCACCATTTGTACACAGCAAACAGTGATGGGACCGTGATTGCCTGGTGTCGGAAGGACCAGCAGCGCTTGAAA
CAGCCAATGTTCTATTCCTTCCTTAGCAGCTATGCAGCCGGGTGAATGCGAATGAACTTCACGTTCTCCAAAGCA
CTTTAACTCCAAACTAGATTTGTTGACTTCACCAGTTTTAGGAGGTTGAACCTAAAGAAATGGATGACTGGACAA
ACCATCCAAATAATGATAAAGTCTATTCATCTGCACAAAATTCTGAAGAGTCACATGATCCTAAGAGGAAAGTTC
TGTTCTATTTTAGTGATAATCTGGAAGATTGTGTCAATATGCACTAGCCAACAAGTTTTAAGCCTCGCATGGTAC
ATTAAAATGATATTCTTAAAATTTTTTCCCACCAAGGTATTCCAAAGAAAATATTAAGGTCTCCCCTTTTTCTAT
GATTCCAAAAGGACCAGTAGAATTTAAATTGGTTGGTTGATXGTTTATATAAAACACACTAAAATTATATTTTAA
AAGTTTAXTGCCXTGAAATACTCCTCCCACCACACACACATGCTCCAAAAGAGGAAAGAAAAAAAGATAATTTTT
AGGACTTGATAATTGCTTTCTTTGAGAAGCAAATTATTCAGTAGGTGCCTCTGTACCAAATATTTTATGGAATAT
CTAAATACTAAAATAAACTATGAATGAATCTCAAAATTAGGCAGTTTTTGCCAGTTGCTTTCTTAGCTCAAAGGA
GAACCAGAATTTTTTTGACAGCCACAAACAAGAATACAGGTATCTTGGATTTCAGACACATTCTGTTTCTTCATA
AAAATTTTACTTAAAATCTGTAACGCTAGATATTGACTATCCTTAGTTGAGTCACTGAGGTTTAAACACAATGGT
AAGTCTTAAAGTCTGCTATTTACAGAGCATTGAATCTGTACCAATTTGCAATAGAAAGCCTTCAGTATGCAAGAA
GTTTGCATGGGTATTAAGAACACAGCCTAAATAAGGCATTTGATCTAATCTGCAGGAAGAATTTTCTTCCCCAAA
ACAGAATTATAAAAGCTTACTTTAAACAGGAGGCAGAATAATTCTTTTAGGAAACCATTTCATTCTGTTTCTACT
AACCTATACCATCTGAGAATTCCTAAACATCTTGGAGCCGTCTGTCTCTCCCATATGATGGCTGTCTGTATATTT
TTACTTGGGGTGCTGCTTTATTGGCTTTGAAAACACTGTCAGATAAGCTCAGTAATATGTTACCATGGGATAAAA
ATATGTATCCCTGCCTAAGAATAACTTGTGCATTTGTTATGGAAATTTAATTCATATGGTGTTTACAGTACTACT
TTTGTAACTTCCAGACTTTCTAAAACATTCTGCTTAAAAACCATATAAAATATAATTCCAAAGTCTCTGCTGTCA
AGATAGATTCGAGAGAAAGCACGTGGCCATGTATGCTTTAACCTTAAACTGCATACACATGTAGTGATACCTAGG
CTGCATTTAGATCACCGTGTGCTCAGGCCAGGTGTGAATCCTGAGGTCCATGGAGGTGCAGAGATGAGATTACTC
CTATTCACGTTGAAGTGATTTGCTTTGTTAACAAAAAATTGCAGCTATTGTCTAGCTTTCATTTTTTTACTGAGA
ACTTTAAATTAGTCCCCTATTAGAATAGGGTTGCTACTCATCTTTTTTTAAAAACCGAATTTCATCATTTATCTA
AAGAGAAAATATGCAGAATAACTGGTCTTGTTAAGAGTGCAATATTATATTTTTATGTAAAAATAAAAATTAATT
TGGGGGGATTATTTATTCAGCATGAAACCTAATATGTATATGTTTGAAATACTTCATAATGTGCATGTTGTAGCA
AACATTTCTGTAAATTATCACAAGCTCTGTTACCTTTATATACGCTGCCTCTTCAATTTGGAAATAAATTTCATA
AAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 736

MSTDSNSLAREFLTDVNRLCNAVVQRVEAREEEEEETHMATLGQYLVHGRGFLLLTKLNSIIDQALTCREELLTL
LLSLLPLVWKIPVQEEKATDFNLPLSADIILTKEKNSSSQRSTQEKLHLEGSALSSQVSAKVNVFRKSRRQRKIT
HRYSVRDARKTQLSTSDSEANSDEKGIAMNKHRRPHLLHHFLTSFPKQDHPKAKLDRLATKEQTPPDAMALENSR
EIIPRQGSNTDILSEPAALSVISNMNNSPFDLCHVLLSLLEKVCKFDVTLNHNSPLAASVVPTLTEFLAGFGDCC
SLSDNLESRVVSAGWTEEPVALIQRMLFRTVLHLLSVDVSTAEMMPENLRKNLTELLRAALKIRICLEKQPDPFA
PRQKKTLQEVQEDFVFSKYRHRALLLPELLEGVLQILICCLQSAASNPFYFSQAMDLVQEFIQHHGFNLFETAVL
QMEWLVLRDGVPPEASEHLKALINSVMKIMSTVKKVKSEQLHHSMCTRKRHRRCEYSHFMHHHRDLSGLLVSAFK
NQVSKNPFEETADGDVYYPERCCCIAVCAHQCLRLLQQASLSSTCVQILSGVHNIGICCCMDPKSVIIPLLHAFK
LPALKNFQQHILNILNKLILDQLGGAEISPKIKKAACNICTVDSDQLAQLEETLQGNLCDAELSSSLSSPSYRFQ
GILPSSGSEDLLWKWDALKAYQNFVFEEDRLHSIQIANHICNLIQKGNIVVQWKLYNYIFNPVLQRGVELAHHCQ
HLSVTSAQSHVCSHHNQCLPQDVLQIYVKTLPILLKSRVIRDLFLSCNGVSQIIELNCLNGIRSHSLKAFETLII
SLGEQQKDASVPDIDGIDIEQKELSSVHVGTSFHHQQAYSDSPQSLSKFYAGLKEAYPKRRKTVNQDVHINTINL
FLCVAFLCVSKEAESDRESANDSEDTSGYDSTASEPLSHMLPCISLESLVLPSPEHMHQAADIWSMCRWIYMLSS
VFQKQFYRLGGFRVCHKLIFMIIQKLFRSHKEEQGKKEGDTSVNENQDLNRISQPKRTMKEDLLSLAIKSDPIPS
ELGSLKKSADSLGKLELQHISSINVEEVSATEAAPEEAKLFTSQESETSLQSIRLLEALLAICLHGARTSQQKME
LELPNQNLSVESILFEMRDHLSQSKVIETQLAKPLFDALLRVALGNYSADFEHNDAMTEKSHQSAEELSSQPGDF
SEEAEDSQCCSFKLLVEEEGYEADSESNPEDGETQDDGVDLKSETEGFSASSSPNDLLENLTQGEIIYPEICMLE
LNLLSASKAKLDVLAHVFESFLKIIRQKEKNVFLLMQQGTVKNLLGGFLSILTQDDSDFQACQRVLVDLLVSLMS
SRTCSEELTLLLRIFLEKSPCTKILLLGILKIIESDTTMSPSQYLTFPLLHAPNLSNGVSSQKYPGILNSKAMGL
LRRARVSRSKKEADRESFPHRLLSSWHIAPVHLPLLGQNCWPHLSEGFSVSLWFNVECIHEAESTTEKGKKIKKR
NKSLILPDSSFDGTESDRPEGAEYINPGERLIEEGCIHIISLGSKALMIQVWADPHNATLIFRVCMDSNDDMKAV
LLAQVESQENIFLPSKWQHLVLTYLQQPQGKRRIHGKISIWVSGQRKPDVTLDFMLPRKTSLSSDSNKTFCMIGH
CLSSQEEFLQLAGKWDLGNLLLFNGAKVGSQEAFYLYACGPNHTSVMPCKYGKPVNDYSKYINKEILRCEQIREL
FMTKKDVDIGLLIESLSVVYTTYCPAQYTIYEPVIRLKGQMKTQLSQRPFSSKEVQSILLEPHHLKNLQPTEYKT
IQGILHEIGGTGIFVFLFARVVELSSCEETQALALRVILSLIKYNQQRVHELENCNGLSMIHQVLIKQKCIVGFY
ILKTLLEGCCGEDIIYMNENGEFKLDVDSNAIIQDVKLLEELLLDWKIWSKAEQGVWETLLAALEVLIRADHHQQ
MFNIKQLLKAQVVHHFLLTCQVLQEYKEGQLTPMPREVCRSFVKIIAEVL

FIGURE 737A

```
CTGAGCCGCATCTGCAATAGCACACTTGCCCGGCCACCTGCTGCCGTGAGCCTTTGCTGCTGAAGCCCCTGGGGT
CGCCTCTACCTGATGAGGATGTGCACCCCCATTAGGGGGCTGCTCATGGCCCTTGCAGTGATGTTTGGGACAGCG
ATGGCATTTGCACCCATACCCCGGATCACCTGGGAGCACAGAGAGGTGCACCTGGTGCAGTTTCATGAGCCAGAC
ATCTACAACTACTCAGCCTTGCTGCTGAGCGAGGACAAGGACACCTTGTACATAGGTGCCCGGGAGGCGGTCTTC
GCTGTGAACGCACTCAACATCTCCGAGAAGCAGCATGAGGTGTATTGGAAGGTCTCAGAAGACAAAAAAGCAAAA
TGTGCAGAAAAGGGGAAATCAAAACAGACAGAGTGCCTCAACTACATCCGGGTGCTGCAGCCACTCAGCGCCACT
TCCCTTTACGTGTGTGGGACCAACGCATTCCAGCCGGCCTGTGACCACCTGAACTTAACATCCTTTAAGTTTCTG
GGGAAAAATGAAGATGGCAAAGGAAGATGTCCCTTTGACCCAGCACACAGCTACACATCCGTCATGGTTGATGGA
GAACTTTATTCGGGGACGTCGTATAATTTTTTGGGAAGTGAACCCATCATCTCCCGAAATTCTTCCCACAGTCCT
CTGAGGACAGAATATGCAATCCCTTGGCTGAACGAGCCTAGTTTCGTGTTTGCTGACGTGATCCGAAAAAGCCCA
GACAGCCCCGACGGCGAGGATGACAGGGTCTACTTCTTCTTCACGGAGGTGTCTGTGGAGTATGAGTTTGTGTTC
AGGGTGCTGATCCCACGGATAGCAAGAGTGTGCAAGGGGGACCAGGGCGGCCTGAGGACCTTGCAGAAGAAATGG
ACCTCCTTCCTGAAAGCCCGACTCATCTGCTCCCGGCCAGACAGCGGCTTGGTCTTCAATGTGCTGCGGGATGTC
TTCGTGCTCAGGTCCCCGGGCCTGAAGGTGCCTGTGTTCTATGCACTCTTCACCCCACAGCTGAACAACGTGGGG
CTGTCGGCAGTGTGCGCCTACAACCTGTCCACAGCCGAGGAGGTCTTCTCCCACGGGAAGTACATGCAGAGCACC
ACAGTGGAGCAGTCCCACACCAAGTGGGTGCGCTATAATGGCCCGGTACCCAAGCCGCGGCCTGGAGCGTGCATC
GACAGCGAGGCACGGGCCGCCAACTACACCAGCTCCTTGAATTTGCCAGACAAGACGCTGCAGTTCGTTAAAGAC
CACCCTTTGATGGATGACTCGGTAACCCCAATAGCAACAGGCCCAGGTTAATCAAGAAAGATGTGAACTACACC
CAGATCGTGGTGGACCGGACCCAGGCCCTGGATGGGACTGTCTATGATGTCATGTTTGTCAGCACAGACCGGGGA
GCTCTGCACAAAGCCATCAGCCTCGAGCACGCTGTTCACATCATCGAGGAGACCCAGCTCTTCCAGGACTTTGAG
CCAGTCCAGACCCTGCTGCTGTCTTCAAAGAAGGGCAACAGGTTTGTCTATGCTGGCTCTAACTCGGGCGTGGTC
CAGGCCCCGCTGGCCTTCTGTGGGAAGCACGGCACCTGCGAGGACTGTGTGCTGGCGCGGGACCCCTACTGCGCC
TGGAGCCCGCCCACAGCGACCTGCGTGGCTCTGCACCAGACCGAGAGCCCCAGCAGGGGTTTGATTCAGGAGATG
AGCGGCGATGCTTCTGTGTGCCCGGATAAAAGTAAAGGAAGTTACCGGCAGCATTTTTTCAAGCACGGTGGCACA
GCGGAACTGAAATGCTCCCAAAAATCCAACCTGGCCCGGGTCTTTTGGAAGTTCCAGAATGGCGTGTTGAAGGCC
GAGAGCCCCAAGTACGGTCTTATGGGCAGAAAAAACTTGCTCATCTTCAACTTGTCAGAAGGAGACAGTGGGGTG
TACCAGTGCCTGTCAGAGGAGAGGGTTAAGAACAAAACGGTCTTCCAAGTGGTCGCCAAGCACGTCCTGGAAGTG
AAGGTGGTTCCAAAGCCCGTAGTGGCCCCCACCTTGTCAGTTGTTCAGACAGAAGGTAGTAGGATTGCCACCAAA
GTGTTGGTGGCATCCACCCAAGGGTCTTCTCCCCCAACCCCAGCCGTGCAGGCCACCTCCTCCGGGGCCATCACC
CTTCCTCCCAAGCCTGCGCCCACCGGCACATCCTGCGAACCAAAGATCGTCATCAACACGGTCCCCCAGCTCCAC
TCGGAGAAAACCATGTATCTTAAGTCCAGCGACAACCGCCTCCTCATGTCCCTCTTCCTCTTCTTCTTTGTTCTC
TTCCTCTGCCTCTTTTTCTACAACTGCTATAAGGGATACCTGCCCAGACAGTGCTTGAAATTCCGCTCGGCCCTA
CTAATTGGGAAGAAGAAGCCCAAGTCAGATTTCTGTGACCGTGAGCAGAGCCTGAAGGAGACGTTAGTAGAGCCA
GGGAGCTTCTCCCAGCAGAATGGGGAGCACCCCAAGCCAGCCCTGGACACCGGCTATGAGACCGAGCAAGACACC
ATCACCAGCAAAGTCCCCACGGATAGGGAGGACTCACAGAGGATCGACGACCTTTCTGCCAGGGACAAGCCCTTT
GACGTCAAGTGTGAGCTGAAGTTCGCTGACTCAGACGCAGATGGAGACTGAGGCCGGCTGTGCATCCCCGCTGGT
GCCTCGGCTGCGACGTGTCCAGGCGTGGAGAGTTTTGTGTTTCTCCTGTTCAGTATCCGAGTCTCGTGCAGTGCT
GCGTAGGTTAGCCCGCATCGTGCAGACAACCTCAGTCCTCTTGTCTATTTTCTCTTGGGTTGAGCCTGTGACTTG
GTTTCTCTTTGTCCTTTTGGAAAAATGACAAGCATTGCATCCCAGTCTTGTGTTCCGAAGTCAGTCGGAGTACTT
GAAGAAGGCCCACGGGCGGCACGGAGTTCCTGAGCCCTTTCTGTAGTGGGGGAAAGGTGGCTGGACCTCTGTTGG
CTGAGAAGAGCATCCCTTCAGCTTCCCCTCCCCGTAGCAGCCACTAAAAGATTATTTAATTCCAGATTGGAAATG
ACATTTTAGTTTATCAGATTGGTAACTTATCGCCTGTTGTCCAGATTGGCACGAACCTTTTCTTCCACTTAATTA
TTTTTTTAGGATTTTGCTTTGATTGTGTTTATGTCATGGGTCATTTTTTTTTAGTTACAGAAGCAGTTGTGTTAA
TATTTAGAAGAAGATGTATATCTTCCAGATTTTGTTATATATTTGGCATAAAATACGGCTTACGTTGCTTAAGAT
TCTCAGGGATAAACTTCCTTTTGCTAAATGCATTCTTTCTGCTTTTAGAAATGTAGACATAAACACTCCCCGGAG
CCCACTCACCTTTTTTCTTTTTCTTTTTTTTTTTAACTTTATTCCTTGAGGGAAGCATTGTTTTTGGAGAGAT
TTTCTTTCTGTACTTCGTTTTACTTTTCTTTTTTTTTAACTTTTACTCTCTCGAAGAAGAGGACCTTCCCACATC
CACGAGGTGGGTTTTGAGCAAGGGAAGGTAGCCTGGATGAGCTGAGTGGAGCCAGGCTGGCCCAGAGCTGAGATG
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FIGURE 737B

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GGAGTGCGGTACAATCTGGAGCCCACAGCTGTCGGTCAGAACCTCCTGTGAGACAGATGGAACCTTCACAAGGGC
GCCTTTGGTTCTCTGAACATCTCCTTTCTCTTCTTGCTTCAATTGCTTACCCACTGCCTGCCCAGACTTTCTATC
CAGCCTCACTGAGCTGCCCACTACTGGAAGGGAACTGGGCCTCGGTGGCCGGGGCCGCGAGCTGTGACCACAGCA
CCCTCAAGCATACGGCGCTGTTCCTGCCACTGTCCTGAAGATGTGAATGGGTGGTACGATTTCAACACTGGTTAA
TTTCACACTCCATCTCCCCGCTTTGTAAATACCCATCGGGAAGAGACTTTTTTTCCATGGTGAAGAGCAATAAAC
TCTGGATGTTTGTGCGCGTGTGTGGACAGTCTTATCTTCCAGCATGATAGGATTTGACCATTTTGGTGTAAACAT
TTGTGTTTTATAAGATTTACCTTGTTTTTATTTTTCTACTTTGAATTGTATACATTTGGAAAGTACCCAAATAAA
TGAGAAGCTTCTATCCTTAAAAAAAAAAAAAAA
```

FIGURE 738

MRMCTPIRGLLMALAVMFGTAMAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNA
LNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRVLQPLSATSLYVCGTNAFQPACDHLNLTSFKFLGKNE
DGKGRCPFDPAHSYTSVMVDGELYSGTSYNFLGSEPIISRNSSHSPLRTEYAIPWLNEPSFVFADVIRKSPDSPD
GEDDRVYFFFTEVSVEYEFVFRVLIPRIARVCKGDQGGLRTLQKKWTSFLKARLICSRPDSGLVFNVLRDVFVLR
SPGLKVPVFYALFTPQLNNVGLSAVCAYNLSTAEEVFSHGKYMQSTTVEQSHTKWVRYNGPVPKPRPGACIDSEA
RAANYTSSLNLPDKTLQFVKDHPLMDDSVTPIDNRPRLIKKDVNYTQIVVDRTQALDGTVYDVMFVSTDRGALHK
AISLEHAVHIIEETQLFQDFEPVQTLLLSSKKGNRFVYAGSNSGVVQAPLAFCGKHGTCEDCVLARDPYCAWSPP
TATCVALHQTESPSRGLIQEMSGDASVCPDKSKGSYRQHFFKHGGTAELKCSQKSNLARVFWKFQNGVLKAESPK
YGLMGRKNLLIFNLSEGDSGVYQCLSEERVKNKTVFQVVAKHVLEVKVVPKPVVAPTLSVVQTEGSRIATKVLVA
STQGSSPPTPAVQATSSGAITLPPKPAPTGTSCEPKIVINTVPQLHSEKTMYLKSSDNRLLMSLFLFFFVLFLCL
FFYNCYKGYLPRQCLKFRSALLIGKKKPKSDFCDREQSLKETLVEPGSFSQQNGEHPKPALDTGYETEQDTITSK
VPTDREDSQRIDDLSARDKPFDVKCELKFADSDADGD

FIGURE 739

AAACACTCTGTGTGGCTCCTCGGCTTTGGGACAGAGTGCAAGACG**ATG**ACTTGCAAAATGTCGCAGCTGGAACGC
AACATAGAGACCATCATCAACACCTTCCACCAATACTCTGTGAAGCTGGGGCACCCAGACACCCTGAACCAGGGG
GAATTCAAAGAGCTGGTGCGAAAAGATCTGCAAAATTTTCTCAAGAAGGAGAATAAGAATGAAAAGGTCATAGAA
CACATCATGGAGGACCTGGACACAAATGCAGACAAGCAGCTGAGCTTCGAGGAGTTCATCATGCTGATGGCGAGG
CTAACCTGGGCCTCCCACGAGAAGATGCACGAGGGTGACGAGGGCCCTGGCCACCACCATAAGCCAGGCCTCGGG
GAGGGCACCCCC**TAA**GACCACAGTGGCCAAGATCACAGTGGCCACGGCCATGGCCACAGTCATGGTGGCCACGGC
CACAGGCCACTAATCAGGAGGCCAGGCCACCCTGCCTCTACCCAACCAGGGCCCCGGGGCCTGTTATGTCAAACT
GTCTTGGCTGTGGGGCTAGGGGCTGGGGCCAAATAAAGTCTCTTCCTCCAA

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FIGURE 740

MTCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIEHIMEDLDTNADKQLS
FEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP

FIGURE 741A

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CACGTTGGGTGACATAATGGGGTTTTTTTAATTATAGATTCACACTGCATTTATTCATCACCCCTGTCCTCTCAT
CCATAACTCAAATTTACTACCAGCAACACAAAATACAAAGATGTGTCCAGTTTCACTACAGCTCTTCGCGTTTAC
AAGTGTCGAGCGCTTGCTTTCGGAACGCCCTTGTGATTGGCCGAGCCAATGCCAGTGACATCAACCAACTTACTT
TTGATTGGAAGGCTGGTTGCTGGGACTGTAGCGTTTGCAGGAAGTCACTTAACTGTTTGGGAGCTGGAAAACCGA
AGCTGAAGTTCTCTTTTGCCATAGGAACGAGCGCAACTGACTAGGAAAGATGTGTCCCAAAGCTCCGCAAGCTGG
AACGTGAGCCAGGAGGCCCGGACCGGCCACGGGACCGCGAGGCACTCCGAAAGTGTGCGGCTGCCCCTTCCCTGC
CTCCCAGCTGTTACCCTTTTAAATGTCAGTGTTCGAGGCTGTAGGGGTAGCACGAGGCAGCGAAACGGAACAGTC
GGATTGGCCGCACGCCTCAGTTCTAGACGCACCTCTCCACCGAAGCCGTTCTGACTGGCAGGGGGAGAAAGTAAA
CAGAGTTGAATCACCCTCCCCACTGGCCAATTGGAGGGGGTTTGGTTTGTGACGTGATGGGATTCTGCGAAATTG
TTACTGAGCAAGAGAATGCCGGAACGTGCGGACCGGCCGGAGCAGGGGTTCAGAAGCCGTCAGTGGACTCGGGAA
AAAGTGTCTCTTAGACCTGGCGCTCGGCGGGGCCCTCGCCACCCGCGTCGGGGTGATCGGGTGAATGTCCTGGGG
CTTTGGCTCGACGGCGAGGCGGCCGAGGGCGTGCACCTCTCTTGCAGTTTCCTCTCCCAGCGCCTCGGGGGCGTT
TTCAGTCGAATAAACTTGCGACCGCCACGTGTGGCATCTTTCCAAGGGAGCCGGCTCAGAGGGGCCGGCGCGCCC
GTCGGGGGATCGCGGCCGGCGCGGGGCAGGGGCGGCGGCTAGAGGCGGCGGCGCGGCGGAGCCCGGGGCCGTGGA
TGCTGCGTGCGGAGGCGCTGCCGGTTACGTAAAGATGAGGGGCTGAGGTCGCCTCGGCGCTCCTGCGAGTCGGAA
GCGCCCCGCGCCCCCGCCCCCTTGGCCGCCGCGCCGTGCCGGGCGGCGGGTCGTCGTCCGAGGCCAGGGAGGGC
GAGCCGAACCTCCGCAGCCACCGCCAAGTTTGTCCGCGCCGCCTGGGCTGCCGTCGCCCGCACC**ATG**TCCGCGGC
CGCCTACATGGACTTCGTGGCTGCCCAGTGTCTGGTTTCCATTTCGAACCGCGCTGCGGTGCCGGAGCATGGGGT
CGCTCCGGACGCCGAGCGGCTGCGACTACCTGAGCGCGAGGTGACCAAGGAGCACGGTGACCCGGGGGGACACCTG
GAAGGATTACTGCACACTGGTCACCATCGCCAAGAGCTTGTTGGACCTGAACAAGTACCGACCCATCCAGACCCC
CTCCGTGTGCAGCGACAGTCTGGAAAGTCCAGATGAGGATATGGGATCCGACAGCGACGTGACCACCGAATCTGG
GTCGAGTCCTTCCCACAGCCCGGAGGAGAGACAGGATCCTGGCAGCGCGCCCAGCCCGCTCTCCCTCCTCCATCC
TGGAGTGGCTGCGAAGGGGAAACACGCCTCCGAAAAGAGGCACAAGTGCCCCTACAGTGGCTGTGGGAAAGTCTA
TGGAAAATCCTCCCATCTCAAAGCCCATTACAGAGTGCATACAGGTGAACGGCCCTTCCCCTGCACGTGGCCAGA
CTGCCTTAAAAAGTTCTCCCGCTCAGACGAGCTGACCCGCCACTACCGGACCCACACTGGGGAAAAGCAGTTCCG
CTGTCCGCTGTGTGAGAAGCGCTTCATGAGGAGTGACCACCTCACAAAGCACGCCCGGCGGCACACCGAGTTCCA
CCCCAGCATGATCAAGCGATCGAAAAAGGCGCTGGCCAACGCTTTG**TGA**GGTGCTGCCCGTGGAAGCCAGGGAGG
GATGGACCCCGAAAGGACAAAAGTACTCCCAGGAAACAGACGCGTGAAAACTGAGCCCCAGAAGAGGCACACTTG
ACGGCACAGGAAGTCACTGCTCTTTGGTCAATATTCTGATTTTCCTCTCCCTGCATTGTTTTAAAAAGCACATT
GTAGCCTAAGATCAAAGTCAACAACACTCGGTCCCCTTGAAGAGGCAACTCTCTGAACCCGTCTCTGACTGTTGG
AGGGAAGGCAAATGCTTTTGGGTTTTTTGGTTTTTGTTTTTGTTTTTTTTTCTCCTTTTATTTTTTTGCGGGGGA
GGGTAGGGAGTGGGTGGGGGGGAGGGGGTAAGGCCAAGACTGGGTAGATTTTAAAGATTCAACACTGGTGTACAT
ATGTCCGCTGGGTGAGTTGACCTGTGGCCTCGCACAGTGATTCTAGGCCCTTTATGCTTGCTGTCTCTCAGAATT
GTTTTCTTACCTTTTAATGTAATGACGAGTGTGCTTCAGTTGTTTAGCAAAACCACTCTCTTGAATCACGTTAA
CTTTTGAGATTAAAAAAAAAAACGCCATAGCACAGCTGTCTTTATGCAAGCAAGAGCACATCTACTCCAGCATGA
TCTGTCATCTAAAGACTTGAAAACAAAAACAGTTACTTATAGTCAATGGGTAAGCAGAGTCTGAATTTATACTA
ATCAAGACAAACCTTTGAAAGGTTACACTAAGTACAGAACTTTTAAACCTTGCTTTGTATGAGTTGTACTTTTTG
AACATAAGCTGCACTTTTATTTTCTAATGCAGAGGATGAATAAGTTAAATACATGCTTTGAGGATAGAAGCAGAT
GTTCTGTTTGGCACCACGTTATAATCTGCTTATTTTACAATATACACGTTTCCCTAAGAAATCATGCGCAGAGAT
GTGAGGGCAGAATATACACAACAGATGCTGAAGGAGAAGGAGGGTAGTGTTTTGCAAAAGAAAAAGAAAAGAACC
AACAGAATTTTAACTCTATTAACTTTTCCAAATTTTCCTATGCTTTTAGTTAACATCATTATTGTATCCTAATGC
CACTAGGGGAGAGAGCTTTTGACTCTGTTGGGTTTTATTTGAATGTGTGCATAACAGTAATGAGATCTGGAAACA
CCTATTTTTTGGGGAAAAAGGTTTGTTGGTCTCCTTCCTGTGTTCCTACAAAACTCCCACTCTCAGGTGCAAGAG
TTATGTAGAAGGAAAGGGAGCTGAAATAGGAACAGAAAAATCAACCCCTATAACTAGTGAACACCAAGGGAAAAT
ACCACAATGATTTCAGAGGAGACTCTGCAAAATCGTCCCTTGTGGAGAATGCAGGCAACATGGAATACTACGAAT
GAAATCACATCACTGTATCTTTTACATCAATAGCCTCACCACTAATATATCTTGTATCTAGGTGTCTATAATGGC
TGAAACCACTACATCCATCTATGCCATTTACCTGAAAACTTAACTGTGGCCTTTATGAGGCCAGAAAAGTGAACT
GAGTTTTGTAGTTAAGACCTCAAATGAGGGGAGTCAGCAGTGATCATGGGGGAAATGTTTACATTTTTTTTTTCT
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FIGURE 741B

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TCAGAAGTAACGCTTTCTGATGATTTTATCTGATATTTAAAACAGGGAGCTATGGTGCACTCTAGTTTATACTTG
CGCTCTGAAATGTGTAAACATAGGGTGCCTACCTATTTCACCTGACCCATACTCGTTTCTGATTCAGAATCAGTG
TGGGCTCCTGCAGTGGGCGCGGGTCACGGCTGACTCCAACTTCCAATACAACAGCCATCACTAGCACAGTGTTTT
TTTGTTTAACCAACGTAGTGTTATTAGTAGTTCTATAAAGAGAACTGCTTTTAACATTAGGGACTGGGAGCAGTC
CATGGGATAAAAAGGAAAGTGTTTTCTCACGAGAAACATGTCAGGAAAAATAAAGAACACTTTCTACCTCTGTT
TCAGATTTTTGAAACACTTATTTTAAACCAAATTTTAATTTCTGTGTCCAAAATAAGTTTTAAGGACATCTGTTC
TTCCATACGAAATAGGTTAGGCTGCCTATTTCTCACTGAGCTCATGGAATGGTTCTGCTTATGATACTCTGCACG
CTGCCTTTTAGTGAGTGAGGAGTTTGGGGTTGCCTAGCACTTGCTAACTTGTAAAAAGTCATCTTTCCCTCACAG
AAAGAAACGAAAGAAAGCAAAGCAAAGTCAGTGAAAGACAATCTTTATAGTTTCAGGAGTAAATCTAAATGTGGC
TTTTGTCAAGCACTTAGATGGATATAAATGCAGCAACTTGTTTTAAAAAAATGCACATTTACTTCCCAAAAAAGT
TGTTACTTGCCTTTTCAAGTGTGACAAACTCACATTTGATATTCTCTTATATGTTATAGTAATGTAACGTATAAA
CTCAAGCCTTTTTATTCTTTGTGATTAAATCCTGTTTTAAAATGTCACAAAACAGGAACCAGCATTCTAATTAGA
TTTACTATATCAAGATATGGTTCAAATAGGACTACTAGAGTTCATTGAACACTAAAACTATGAAACAATTACTTT
TTATATTAAAAAGACCATGGATTTAACTTATGAAAATCCAAATGCAGGATAGTAATTTTTGTTACTTTTTTAAC
CAAACTGAATTTTTGAAAGACTATTGCAGGTGTTTAAAAAGAAAGAAAAGTTGTTTTATCTAATACTGTAAGTAG
TTGTCATATTCTGGAAAATTTAATAGTTTTAGAGTTAAGATATCTCCTCTCTTTGGTTAGGGAAGAAGAAAGCCC
TTCACCATTGTGGAATGATGCCCTGGCTTTAAGGTTTAGCTCCACATCATGCTTCTCTT
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FIGURE 742

MSAAAYMDFVAAQCLVSISNRAAVPEHGVAPDAERLRLPEREVTKEHGDPGDTWKDYCTLVTIAKSLLDLNKYRP
IQTPSVCSDSLESPDEDMGSDSDVTTESGSSPSHSPEERQDPGSAPSPLSLLHPGVAAKGKHASEKRHKCPYSGC
GKVYGKSSHLKAHYRVHTGERPFPCTWPDCLKKFSRSDELTRHYRTHTGEKQFRCPLCEKRFMRSDHLTKHARRH
TEFHPSMIKRSKKALANAL

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FIGURE 743

GGCACGAGGGATCCCGGATGTGGATCAAGTTGGTGGGAAGCGTGCGGTGCCGCAGCA**ATG**GCGGCGCTCACAATT
GCCACGGGTACTGGCAATTGGTTTTCGGCTTTGGCGCTCGGGGTGACTCTTCTCAAATGCCTTCTCATCCCCACA
TACCATTCCACAGATTTTGAAGTACACCGAAACTGGCTTGCTATCACTCACAGTTTGCCAATATCACAGTGGTAT
TATGAGGCAACTTCAGAGTGGACGTTGGATTACCCCCCTTTCTTTGCATGGTTTGAGTATATCCTGTCACATGTT
GCCAAATATTTTGATCAAGAAATGCTGAATGTCCATAATTTGAATTACTCCAGCTCAAGGACCTTACTTTTCCAG
AGATTTTCCGTCATCTTTATGGATGTACTCTTTGTGTATGCTGTCCGTGAGTGCTGTAAATGCATTGATGGAAAA
AAAGTGGGTAAAGAACTTACAGAAAAGCCAAAATTTATTCTGTCGGTATTACTTCTGTGGAACTTCGGGTTATTA
ATTGTGGACCATATTCATTTTCAGTACAATGGCTTTTTATTTGGATTAATGCTACTCTCCATTGCACGATTATTT
CAGAAAAGGCATATGGAAGGAGCATTTCTCTTTGCTGTTCTCCTACATTTCAAGCATATCTACCTCTATGTAGCA
CCAGCTTATGGTGTATATCTGCTGCGATCCTACTGTTTCACTGCAAATAAACCAGATGGGTCTATTCGATGGAAG
AGTTTCAGCTTTGTTCGTGTTATTTCCCTGGGACTGGTTGTTTTCTTAGTTTCTGCTCTTTCATTGGGTCCTTTC
CTGGCCTTGAATCAGCTGCCTCAAGTCTTTTCCCGACTCTTTCCTTTCAAGAGGGGCCTCTGTCATGCATATTGG
GCTCCAAACTTCTGGGCTTTGTACAATGCTTTGGACAAAGTGCTGTCTGTCATCGGTTTGAAATTGAAATTTCTT
GATCCCAACAATATTCCCAAGGCCTCAATGACAAGTGGTTTGGTTCAGCAGTTCCAACACACAGTCCTTCCCTCA
GTGACTCCCTTGGCAACCCTCATCTGCACACTGATTGCCATATTGCCCTCTATTTTCTGTCTTTGGTTTAAACCC
CAAGGGCCCAGAGGCTTTCTCCGATGTCTAACTCTTTGTGCCTTGAGCTCCTTTATGTTTGGGTGGCATGTTCAT
GAAAAAGCCATACTTCTAGCAATTCTCCCAATGAGCCTTTTGTCTGTGGGAAAAGCAGGAGACGCTTCGATTTTT
CTGATTCTGACCACAACAGGACATTATTCCCTCTTTCCTCTGCTCTTCACTGCACCAGAACTTCCCATTAAAATC
TTACTCATGTTACTATTCACCATATATAGTATTTCGTCACTGAAGACTTTATTCAGAAAAGAAAAACCTCTTTTT
AATTGGATGGAAACTTTCTACCTGCTTGGCCTGGGGCCTCTGGAAGTCTGCTGTGAATTTGTATTCCCTTTCACC
TCCTGGAAGGTGAAGTACCCCTTCATCCCTTTGTTACTAACCTCAGTGTATTGTGCAGTAGGCGTCACATATGCT
TGGTTCAAACTGTATGTTTCAGTATTGATTGACTCTGCTATTGGCAAGACAAAGAAACAA**TGA**ATAAAGGAACTG
CTTAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 744

MAALTIATGTGNWFSALALGVTLLKCLLIPTYHSTDFEVHRNWLAITHSLPISQWYYEATSEWTLDYPPFFAWFE
YILSHVAKYFDQEMLNVHNLNYSSSRTLLFQRFSVIFMDVLFVYAVRECCKCIDGKKVGKELTEKPKFILSVLLL
WNFGLLIVDHIHFQYNGFLFGLMLLSIARLFQKRHMEGAFLFAVLLHFKHIYLYVAPAYGVYLLRSYCFTANKPD
GSIRWKSFSFVRVISLGLVVFLVSALSLGPFLALNQLPQVFSRLFPFKRGLCHAYWAPNFWALYNALDKVLSVIG
LKLKFLDPNNIPKASMTSGLVQQFQHTVLPSVTPLATLICTLIAILPSIFCLWFKPQGPRGFLRCLTLCALSSFM
FGWHVHEKAILLAILPMSLLSVGKAGDASIFLILTTTGHYSLFPLLFTAPELPIKILLMLLFTIYSISSLKTLFR
KEKPLFNWMETFYLLGLGPLEVCCEFVFPFTSWKVKYPFIPLLLTSVYCAVGVTYAWFKLYVSVLIDSAIGKTKK
Q

FIGURE 745

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CCCCTCTTCCTCCTCCTCAAGGGAAAGCTGCCCACTTCTAGCTGCCCTGCCATCCCCTTTAAAGGGCGACTTGCT
CAGCGCCAAACCGCGGCTCCAGCCCTCTCCAGCCTCCGGCTCAGCCGGCTCATCAGTCGGTCCGCGCCTTGCAGC
TCCTCCAGAGGGACGCGCCCCGAGATGGAGAGCAAAGCCCTGCTCGTGCTGACTCTGGCCGTGTGGCTCCAGAGT
CTGACCGCCTCCCGCGGAGGGGTGGCCGCCGCCGACCAAAGAAGAGATTTTATCGACATCGAAAGTAAATTTGCC
CTAAGGACCCCTGAAGACACAGCTGAGGACACTTGCCACCTCATTCCCGGAGTAGCAGAGTCCGTGGCTACCTGT
CATTTCAATCACAGCAGCAAAACCTTCATGGTGATCCATGGCTGGACGGTAACAGGAATGTATGAGAGTTGGGTG
CCAAAACTTGTGGCCGCCCTGTACAAGAGAGAACCAGACTCCAATGTCATTGTGGTGGACTGGCTGTCACGGGCT
CAGGAGCATTACCCAGTGTCCGCGGGCTACACCAAACTGGTGGGACAGGATGTGGCCCGGTTTATCAACTGGATG
GAGGAGGAGTTTAACTACCCTCTGGACAATGTCCATCTCTTGGGATACAGCCTTGGAGCCCATGCTGCTGGCATT
GCAGGAAGTCTGACCAATAAGAAAGTCAACAGAATTACTGGCCTCGATCCAGCTGGACCTAACTTTGAGTATGCA
GAAGCCCCGAGTCGTCTTTCTCCTGATGATGCAGATTTTGTAGACGTCTTACACACATTCACCAGAGGGTCCCCT
GGTCGAAGCATTGGAATCCAGAAACCAGTTGGGCATGTTGACATTTACCCGAATGGAGGTACTTTTCAGCCAGGA
TGTAACATTGGAGAAGCTATCCGCGTGATTGCAGAGAGAGGACTTGGAGATGTGGACCAGCTAGTGAAGTGCTCC
CACGAGCGCTCCATTCATCTCTTCATCGACTCTCTGTTGAATGAAGAAAATCCAAGTAAGGCCTACAGGTGCAGT
TCCAAGGAAGCCTTTGAGAAAGGGCTCTGCTTGAGTTGTAGAAAGAACCGCTGCAACAATCTGGGCTATGAGATC
AATAAAGTCAGAGCCAAAAGAAGCAGCAAAATGTACCTGAAGACTCGTTCTCAGATGCCCTACAAAGTCTTCCAT
TACCAAGTAAAGATTCATTTTTCTGGGACTGAGAGTGAAACCCATACCAATCAGGCCTTTGAGATTTCTCTGTAT
GGCACCGTGGCCGAGAGTGAGAACATCCCATTCACTCTGCCTGAAGTTTCCACAAATAAGACCTACTCCTTCCTA
ATTTACACAGAGGTAGATATTGGAGAACTACTCATGTTGAAGCTCAAATGGAAGAGTGATTCATACTTTAGCTGG
TCAGACTGGTGGAGCAGTCCCGGCTTCGCCATTCAGAAGATCAGAGTAAAAGCAGGAGAGACTCAGAAAAAGGTG
ATCTTCTGTTCTAGGGAGAAAGTGTCTCATTTGCAGAAAGGAAAGGCACCTGCGGTATTTGTGAAATGCCATGAC
AAGTCTCTGAATAAGAAGTCAGGCTGAAACTGGGCGAATCTACAGAACAAAGAACGGCATGTGAATTCTGTGAAG
AATGAAGTGGAGGAAGTAACTTTTACAAAACATACCCAGTGTTTGGGGTGTTTCAAAAGTGGATTTTCCTGAATA
TTAATCCCAGCCCTACCCTTGTTAGTTATTTTAGGAGACAGTCTCAAGCACTAAAAAGTGGCTAATTCAATTTAT
GGGGTATAGTGGCCAAATAGCACATCCTCCAACGTTAAAAGACAGTGGATCATGAAAAGTGCTGTTTTGTCCTTT
GAGAAAGAAATAATTGTTTGAGCGCAGAGTAAAATAAGGCTCCTTCATGTGGCGTATTGGGCCATAGCCTATAAT
TGGTTAGAACCTCCTATTTTAATTGGAATTCTGGATCTTTCGGACTGAGGCCTTCTCAAACTTTACTCTAAGTCT
CCAAGAATACAGAAAATGCTTTTCCGCGGCACGAATCAGACTCATCTACACAGCAGTATGAATGATGTTTTAGAA
TGATTCCCTCTTGCTATTGGAATGTGGTCCAGACGTCAACCAGGAACATGTAACTTGGAGAGGGACGAAGAAAGG
GTCTGATAAACACAGAGGTTTTAAACAGTCCCTACCATTGGCCTGCATCATGACAAAGTTACAAATTCAAGGAGA
TATAAATCTAGATCAATTAATTCTTAATAGGCTTTATCGTTTATTGCTTAATCCCTCTCTCCCCCTTCTTTTTTT
GTCTCAAGATTATATTATAATAATGTTCTCTGGGTAGGTGTTGAAAATGAGCCTGTAATCCTCAGCTGACACATA
AATTTGAATGGTGCAGAAAAAAAAAGATACCGTAATTTTATTATTAGATTCTCCAAATGATTTTCATCAATTTAA
AATCATTCAATATCTGACAGTTACTCTTCAGTTTTAGGCTTACCTTGGTCATGCTTCAGTTGTACTTCCAGTGCG
TCTCTTTTGTTCCTGGCTTTGACATGAAAAGATAGGTTTGAGTTCAAATTTTGCATTGTGTGAGCTTCTACAGAT
TTTAGACAAGGACCGTTTTTACTAAGTAAAAGGGTGGAGAGGTTCCTGGGGTGGATTCCTAAGCAGTGCTTGTAA
ACCATCGCGTGCAATGAGCCAGATGGAGTACCATGAGGGTTGTTATTGTTGTTTTTAACAACTAATCAAGAGTG
AGTGAACAACTATTTATAAACTAGATCTCCTATTTTTCAGAATGCTCTTCTACGTATAAATATGAAATGATAAAG
ATGTCAAATATCTCAGAGGCTATAGCTGGGAACCCGACTGTGAAAGTATGTGATATCTGAACACATACTAGAAAG
CTCTGCATGTGTGTTGTCCTTCAGCATAATTCGGAAGGGAAAACAGTCGATCAAGGGATGTATTGGAACATGTCG
GAGTAGAAATTGTTCCTGATGTGCCAGAACTTCGACCCTTTCTCTGAGAGATGATCGTGCCTATAAATAGTAG
GACCAATGTTGTGATTAACATCATCAGGCTTGGAATGAATTCTCTCTAAAAATAAAATGATGTATGATTTGTTGT
TGGCATCCCCTTTATTAATTCATTAAATTTCTGGATTTGGGTTGTGACCCAGGGTGCATTAACTTAAAAGATTCA
CTAAAGCAGCACATAGCACTGGGAACTCTGGCTCCGAAAAACTTTGTTATATATATCAAGGATGTTCTGGCTTTA
CATTTTATTTATTAGCTGTAAATACATGTGTGGATGTGTAAATGGAGCTTGTACATATTGGAAAGGTCATTGTGG
CTATCTGCATTTATAAATGTGTGGTGCTAACTGTATGTGTCTTTATCAGTGATGGTCTCACAGAGCCAACTCACT
CTTATGAAATGGGCTTTAACAAAACAAGAAAGAAACGTACTTAACTGTGTGAAGAAATGGAATCAGCTTTTAATA
AAATTGACAACATTTTATTACCAC
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FIGURE 746

MESKALLVLTLAVWLQSLTASRGGVAAADQRRDFIDIESKFALRTPEDTAEDTCHLIPGVAESVATCHFNHSSKT
FMVIHGWTVTGMYESWVPKLVAALYKREPDSNVIVVDWLSRAQEHYPVSAGYTKLVGQDVARFINWMEEEFNYPL
DNVHLLGYSLGAHAAGIAGSLTNKKVNRITGLDPAGPNFEYAEAPSRLSPDDADFVDVLHTFTRGSPGRSIGIQK
PVGHVDIYPNGGTFQPGCNIGEAIRVIAERGLGDVDQLVKCSHERSIHLFIDSLLNEENPSKAYRCSSKEAFEKG
LCLSCRKNRCNNLGYEINKVRAKRSSKMYLKTRSQMPYKVFHYQVKIHFSGTESETHTNQAFEISLYGTVAESEN
IPFTLPEVSTNKTYSFLIYTEVDIGELLMLKLKWKSDSYFSWSDWWSSPGFAIQKIRVKAGETQKKVIFCSREKV
SHLQKGKAPAVFVKCHDKSLNKKSG

FIGURE 747

GGCGCCGACCCATGCTGGCTGGGAACGTGTCTCCCGGTGACGCAGCCCCGGGTGGGGAACGTGGTGCGGCGGCGG
CGGCGGCGGCGACTGTACGCGCCTCCGCCGCCCCCGAGAGGACGCGCCGTGCAGCGGCTGAGTGGCGGCGGCGGC
GACGGCAAACCCGGAGCTGCCGGCCGGCGCGCGGGAGGAGGACGCGGGTGCGGTCTAGGAAACGGAGCTGCGGGC
GGAGGCTCCATGTTGGGAAGCGGCGCCGTTCGTGCTTGTTAGCGGGAATCCGGGAGCCGCGGGGTGAGCTGGCGG
GGGCCGGGCCCTAAGTGAAG**ATG**GAGGCCCCGCTGCGGCCTGCCGCGGACATCCTGAGGCGGAACCCGCAGCAGG
ACTACGAACTCGTCCAGAGGGTCGGCAGCGGCACCTACGGGGACGTCTATAAGGCCAGAAATGTACACACAGGAG
AGCTGGCTGCAGTAAAAATCATTAAATTGGAGCCTGGAGATGATTTTTCTTTGATTCAACAAGAAATATTTATGG
TTAAAGAATGTAAACATTGTAACATCGTTGCCTACTTTGGGAGTTATCTTAGTCGGGAAAAACTATGGATTTGTA
TGGAATACTGTGGTGGCGGATCACTTCAAGATATTTACCATGTTACTGGACCATTATCAGAATTGCAAATAGCCT
ATGTATGCAGAGAAACCTTACAGGGTCTTGCCTATTTGCATACTAAAGGCAAAATGCATAGAGATATCAAAGGTG
CTAATATTTTATTGACAGACCATGGCGATGTAAAATTAGCTGACTTTGGTGTGGCTGCAAAAATAACAGCTACCA
TTGCAAAACGAAAATCTTTCATTGGCACCCCTTACTGGATGGCCCCAGAAGTTGCAGCAGTAGAGAAGAATGGTG
GCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACAGCAATTGAACTTGGAGAACTTCAGCCACCTATGT
TTGATCTCCACCCAATGAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCCAAAACTAAAGGACAAAA
CAAAATGGTCATCAACATTCCATAATTTTGTCAAAATAGCACTAACCAAAAACCCAAAAAAAAGACCAACTGCTG
AAAGACTTCTGACTCACACTTTTGTTGCACAGCCAGGTCTCTCTAGAGCCCTAGCAGTTGAACTGTTAGACAAAG
TGAACAATCCAGATAACCACGCACATTACACTGAAGCAGATGACGATGACTTTGAGCCCCATGCAATCATTCGTC
ATACCATTAGATCTACAAACAGGAATGCCAGAGCTGAACGGACAGCTTCAGAAATAAATTTTGACAAATTACAAT
TTGAACCTCCTCTGAGAAAAGAAACAGAAGCACGAGATGAAATGGGATTGTCATCAGACCCAAATTTCATGTTAC
AGTGGAATCCTTTTGTTGATGGTGCAAATACTGGCAAATCAACCTCAAAACGTGCAATACCACCTCCCCTACCTC
CTAAGCCAAGGATAAGCAGTTACCCTGAAGACAACTTTCCGGATGAAGAAAAAGCATCAACCATAAACATTGTC
CTGATTCAGAAAGCAGAGCTCCCCAAATTCTCAGAAGACAGAGTAGCCCAAGTTGTGGGCCTGTGGCAGAGACTT
CTTCTATTGGAAATGGTGATGGTATTTCAAAACTGATGAGTGAAAATACAGAAGGATCAGCACAAGCACCACAGT
TACCACGAAAAAAGGACAAACGAGACTTCCCTAAACCAGCCATCAATGGCCTTCCACCCACCCCAAAAGTTCTGA
TGGGAGCATGCTTTTCAAAAGTTTTTGATGGCTGTCCTTTGAAAATTAATTGTGCAACATCCTGGATACATCCTG
ATACAAAGATCAGTACATTATTTTTGGAACTGAAGATGGTATTTACACACTGAATCTCAATGAGCTACATGAGG
CAACGATGGAACAGTTATTTCCACGGAAGTGTACTTGGCTGTATGTTATCAATAATACTTTAATGTCATTATCAG
AAGGAAAAACCTTTCAGCTCTACTCTCACAATCTTATAGCTTTGTTTGAACATGCCAAAAAACCAGGATTAGCTG
CCCATATTCAAACTCACAGGTTTCCAGACCGAATACTACCAAGAAAATTCGCTTTAACAACAAAGATTCCTGATA
CAAAAGGCTGCCACAAATGTTGCATAGTCAGAAACCCTTACACGGGACATAAATACCTCTGTGGAGCTTTACAGT
CTGGAATTGTTTTACTTCAGTGGTATGAGCCAATGCAGAAATTCATGTTGATAAAGCACTTTGATTTTCCTTTGC
CAAGTCCTTTGAATGTTTTTGAAATGCTGGTGATACCTGAACAGGAATACCCTATGGTCTGTGTAGCTATTAGCA
AAGGCACTGAATCGAATCAGGTAGTTCAGTTTGAGACAATCAATTTGAACTCTGCATCTTCATGGTTTACAGAAA
TTGGTGCAGGCAGCCAGCAGTTAGATTCCATTCATGTAACACAGTTGGAGAGAGATACCGTTTTAGTGTGTTTAG
ACAAATTTGTGAAAATTGTAAATCTACAAGGAAAATTAAAATCAAGTAAGAAACTGGCCTCTGAGTTAAGTTTTG
ATTTTCGCATTGAATCTGTAGTATGCCTTCAAGACAGTGTGTTGGCTTTCTGGAAACATGGGATGCAGGGTAAAA
GCTTCAAGTCAGATGAGGTTACCCAGGAGATTTCAGATGAAACAAGAGTTTTCCGCTTATTAGGATCAGACAGGG
TTGTCGTTTTGGAAAGTAGGCCAACAGAAAATCCTACTGCACACAGCAATCTCTACATCTTGGCTGGACATGAAA
ATAGTTAC**TAA**GCAACAGAAACTGATCTCAAATGACAGGAAAATGAATATACTCCATTGAAAGGAAAAATAAGGA
AATTCAATACAAACTGCACTATGATTTGCTTTAACTATTATGGGTTATATTGCAAATGATCTGTACTTTAGGGTA

FIGURE 748

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MEAPLRPAADILRRNPQQDYELVQRVGSGTYGDVYKARNVHTGELAAVKIIKLEPGDDFSLIQQEIFMVKECKHC
NIVAYFGSYLSREKLWICMEYCGGGSLQDIYHVTGPLSELQIAYVCRETLQGLAYLHTKGKMHRDIKGANILLTD
HGDVKLADFGVAAKITATIAKRKSFIGTPYWMAPEVAAVEKNGGYNQLCDIWAVGITAIELGELQPPMFDLHPMR
ALFLMSKSNFQPPKLKDKTKWSSTFHNFVKIALTKNPKKRPTAERLLTHTFVAQPGLSRALAVELLDKVNNPDNH
AHYTEADDDDFEPHAIIRHTIRSTNRNARAERTASEINFDKLQFEPPLRKETEARDEMGLSSDPNFMLQWNPFVD
GANTGKSTSKRAIPPPLPPKPRISSYPEDNFPDEEKASTIKHCPDSESRAPQILRRQSSPSCGPVAETSSIGNGD
GISKLMSENTEGSAQAPQLPRKKDKRDFPKPAINGLPPTPKVLMGACFSKVFDGCPLKINCATSWIHPDTKDQYI
IFGTEDGIYTLNLNELHEATMEQLFPRKCTWLYVINNTLMSLSEGKTFQLYSHNLIALFEHAKKPGLAAHIQTHR
FPDRILPRKFALTTKIPDTKGCHKCCIVRNPYTGHKYLCGALQSGIVLLQWYEPMQKFMLIKHFDFPLPSPLNVF
EMLVIPEQEYPMVCVAISKGTESNQVVQFETINLNSASSWFTEIGAGSQQLDSIHVTQLERDTVLVCLDKFVKIV
NLQGKLKSSKKLASELSFDFRIESVVCLQDSVLAFWKHGMQGKSFKSDEVTQEISDETRVFRLLGSDRVVVLESR
PTENPTAHSNLYILAGHENSY
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FIGURE 749

CACCTGCTGCCGCCCGCGCC**ATG**GCTGGCAAAGCACACAGGCTGAGCGCTGAGGAGAGGGACCAGCTGCTGCCAA
ACCTGAGGGCTGTGGGGTGGAATGAGCTGGAAGGCCGTGATGCCATCTTCAAGCAGTTTCATTTCAAAGACTTCA
ACAGGGCCTTTGGGTTCATGACAAGAGTGGCCCTGCAGGCTGAGAAACTGGACCACCATCCTGAATGGTTTAACG
TGTACAACAAGGTCCACATCACGCTGAGCACCCATGAGTGTGCCGGCCTTTCAGAACGGGACATAAACCTGGCCA
GCTTCATCGAACAAGTAGCAGTGTCCATGACA**TAG**ACCCTGCCCTTCCTCTTTGAATTCTTCCGGGGGAAGGGGT
GACTGAACTGGGAGTCCAGGGAGGGAGCTGAGGAGCCCTTACCCTCCCACCACTCCCCTCCCAAGACCCAGCCGC
CGCCGTTGAGGGCTGAGTCCTTGCTGTGGGATGTGCCAGTGTCCCCACCAACACCAGGAATTTAGACCTTTTCCC
TGCACCACTCTCTTCATCCTGGGGGCTCTGTTACACTAATTTGAATAAACTCTCCCCTTTCTTTGCAACTTCCCA
GCAACAATAATGATTTTCTTGCCA

FIGURE 750

MAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFNRAFGFMTRVALQAEKLDHHPEWFNVYNKVHI
TLSTHECAGLSERDINLASFIEQVAVSMT

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FIGURE 751

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TGCCGCAGCCCCCGCCCGCCCGCAGAGCTTTTGAAAGGCGGCGGGAGGCGGCGAGCGCCATGGCCAGTCCGGGCT
GCCTGCTGTGCGTGCTGGGCCTGCTACTCTGCGGGGCGGCGAGCCTCGAGCTGTCTAGACCCCACGGCGACACCG
CCAAGAAGCCCATCATCGGAATATTAATGCAAAAATGCCGTAATAAAGTCATGAAAAACTATGGAAGATACTATA
TTGCTGCGTCCTATGTAAAGTACTTGGAGTCTGCAGGTGCGAGAGTTGTACCAGTAAGGCTGGATCTTACAGAGA
AAGACTATGAAATACTTTTCAAATCTATTAATGGAATCCTTTTCCCTGGAGGAAGTGTTGACCTCAGACGCTCAG
ATTATGCTAAAGTGGCCAAAATATTTTATAACTTGTCCATACAGAGTTTTGATGATGGAGACTATTTTCCTGTGT
GGGGCACATGCCTTGGATTTGAAGAGCTTTCACTGCTGATTAGTGGAGAGTGCTTATTAACTGCCACAGATACTG
TTGACGTGGCAATGCCGCTGAACTTCACTGGAGGTCAATTGCACAGCAGAATGTTCCAGAATTTTCCTACTGAGT
TGTTGCTGTCATTAGCAGTAGAACCTCTGACTGCCAATTTCCATAAGTGGAGCCTCTCCGTGAAGAATTTTACAA
TGAATGAAAAGTTAAAGAAGTTTTTCAATGTCTTAACTACAAATACAGATGGCAAGATTGAGTTTATTTCAACAA
TGGAAGGATATAAGTATCCAGTATATGGTGTCCAGTGGCATCCAGAGAAAGCACCTTATGAGTGGAAGAATTTGG
ATGGCATTTCCCATGCACCTAATGCTGTGAAAACCGCATTTTATTTAGCAGAGTTTTTTGTTAATGAAGCTCGGA
AAAACAACCATCATTTTAAATCTGAATCTGAAGAGGAGAAAGCATTGATTTATCAGTTCAGTCCAATTTATACTG
GAAATATTTCTTCATTTCAGCAATGTTACATATTTGATTGAAAGTCTTCAATTTGTTAACAGAGCAAATTTGAAT
AATTCCATGATTAAACTGTTAGAATAACTTGCTACTCATGGCAAGATTAGGAAGTCACAGATTCTTTTCTATAAT
GTGCCTGGCTCTGATTCTTCATTATGTATGTGACTATTTATATAACATTAGATAATTAAATAGTGAGACATAAAT
AGAGTGCTTTTTCATGGAAAAGCCTTCTTATATCTGAAGATTGAAAAATAAATTTACTGAAATACAAAAAAAAAA
AAAAA
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FIGURE 752

MASPGCLLCVLGLLLCGAASLELSRPHGDTAKKPIIGILMQKCRNKVMKNYGRYYIAASYVKYLESAGARVVPVR
LDLTEKDYEILFKSINGILFPGGSVDLRRSDYAKVAKIFYNLSIQSFDDGDYFPVWGTCLGFEELSLLISGECLL
TATDTVDVAMPLNFTGGQLHSRMFQNFPTELLLSLAVEPLTANFHKWSLSVKNFTMNEKLKKFFNVLTTNTDGKI
EFISTMEGYKYPVYGVQWHPEKAPYEWKNLDGISHAPNAVKTAFYLAEFFVNEARKNNHHFKSESEEEKALIYQF
SPIYTGNISSFQQCYIFD

FIGURE 753

GAATTCCAACT**ATG**GAGACCCAAATGTCTCAGAATGTATGTCCCAGAAACCTGTGGCTGCTTCAACCATTGACAG
TTTTGCTGCTGCTGGCTTCTGCAGACAGTCAAGCTGCAGCTCCCCCAAAGGCTGTGCTGAAACTTGAGCCCCCGT
GGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCAGGGGGCTCGCAGCCCTGAGAGCGACTCCATTC
AGTGGTTCCACAATGGGAATCTCATTCCCACCCACACGCAGCCCAGCTACAGGTTCAAGGCCAACAACAATGACA
GCGGGGAGTACACGTGCCAGACTGGCCAGACCAGCCTCAGCGACCCTGTGCATCTGACTGTGCTTTCCGAATGGC
TGGTGCTCCAGACCCCTCACCTGGAGTTCCAGGAGGGAGAAACCATCATGCTGAGGTGCCACAGCTGGAAGGACA
AGCCTCTGGTCAAGGTCACATTCTTCCAGAATGGAAAATCCCAGAAATTCTCCCGTTTGGATCCCACCTTCTCCA
TCCCACAAGCAAACCACAGTCACAGTGGTGATTACCACTGCACAGGAAACATAGGCTACACGCTGTTCTCATCCA
AGCCTGTGACCATCACTGTCCAAGTGCCCAGCATGGGCAGCTCTTCACCAATGGGGATCATTGTGGCTGTGGTCA
TTGCGACTGCTGTAGCAGCCATTGTTGCTGCTGTAGTGGCCTTGATCTACTGCAGGAAAAAGCGGATTTCAGCCA
ATTCCACTGATCCTGTGAAGGCTGCCCAATTTGAGCCACCTGGACGTCAAATGATTGCCATCAGAAAGAGACAAC
TTGAAGAAACCAACAATGACTATGAAACAGCTGACGGCGGCTACATGACTCTGAACCCCAGGGCACCTACTGACG
ATGATAAAAACATCTACCTGACTCTTCCTCCCAACGACCATGTCAACAGTAATAAC**TAA**AGAGTAACGTTATGCC
ATGTGGTCATACTCTCAGCTTGCTGAGTGGATGACAAAAAGAGGGGAATTGTTAAAGGAAAATTTAAATGGAGAC
TGGAAAAATCCTGAGCAAACAAAACCACCTGGCCCTTAGAAATAGCTTTAACTTTGCTTAAACTACAAACACAAG
CAAAACTTCACGGGGTCATACTACATACAAGCATAAGCAAAACTTAACTTGGATCATTTCTGGTAAATGCTTATG
TTAGAAATAAGACAACCCCAGCCAATCACAAGCAGCCTACTAACATATAATTAGGTGACTAGGGACTTTCTAAGA
AGATACCTACCCCCAAAAAACAATTATGTAATTGAAAACCAACCGATTGCCTTTATTTTGCTTCCACATTTTCCC
AATAAATACTTGCCTGTGACATTTTGCCACTGGAACACTAAACTTCATGAATTGCGCCTCAGATTTTTCCTTTAA
CATCTTTTTTTTTTTGACAGAGTCTCAATCTGTTACCCAGGCTGGAGTGCAGTGGTGCTATCTTGGCTCACTGC
AAACCCGCCTCCCAGGTTTAAGCGATTCTCATGCCTCAGCCTCCCAGTAGCTGGGATTAGAGGCATGTGCCATCA
TACCCAGCTAATTTTTGTATTTTTTATTTTTTTTTTTAGTAGAGACAGGGTTTCGCAATGTTGGCCAGGCCGAT
CTCGAACTTCTGGCCTCTAGCGATCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGATGACCAGCATCAGCCCCAAT
GTCCAGCCTCTTTAACATCTTCTTTCCTATGCCCTCTCTGTGGATCCCTACTGCTGGTTTCTGCCTTCTCCATGC
TGAGAACAAAATCACCTATTCACTGCTTATGCAGTCGGAAGCTCCAGAAGAACAAAGAGCCCAATTACCAGAACC
ACATTAAGTCTCCATTGTTTTGCCTTGGGATTTGAGAAGAGAATTAGAGAGGTGAGGATCTGGTATTCCTGGAC
TAAATTCCCCTTGGGGAAGACGAAGGGATGCTGCAGTTCCAAAAGAGAAGGACTCTTCCAGAGTCATCTACCTGA
GTCCCAAAGCTCCCTGTCCTGAAAGCCACAGACAATATGGTCCCAAATGACTGACTGCACCTTCTGTGCCTCAGC
CGTTCTTGACATCAAGAATCTTCTGTTCCACATCCACACAGCCAATACAATTAGTCAAACCACTGTTATTAACAG
ATGTAGCAACATGAAAGACGCTATGTTACAGGTTACATGAGAGCAATCATGTAAGTCTATATGACTTCAGAAATG
TTAAAATAGACTAACCTCTAACAACAAATTAAAAGTGCGGAATTC

FIGURE 754

METQMSQNVCPRNLWLLQPLTVLLLLASADSQAAAPPKAVLKLEPPWINVLQEDSVTLTCQGARSPESDSIQWFH
NGNLIPTHTQPSYRFKANNNDSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIMLRCHSWKDKPLV
KVTFFQNGKSQKFSRLDPTFSIPQANHSHSGDYHCTGNIGYTLFSSKPVTITVQVPSMGSSSPMGIIVAVVIATA
VAAIVAAVVALIYCRKKRISANSTDPVKAAQFEPPGRQMIAIRKRQLEETNNDYETADGGYMTLNPRAPTDDDKN
IYLTLPPNDHVNSNN

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FIGURE 755

GGGAAG**ATG**GCGAAGGTCTCAGAGCTTTACGATGTCACTTGGGAAGAAATGAGAGATAAAATGAGAAAATGGAGA
GAAGAAAACTCAAGAAATAGTGAGCAAATTGTGGAAGTTGGAGAAGAATTAATTAATGAATATGCTTCTAAGCTG
GGAGATGATATTTGGATCATATATGAACAGGTGATGATTGCAGCACTAGACTATGGTCGGGATGACTTGGCATTG
TTTTGTCTTCAAGAGCTGAGAAGACAGTTCCCTGGCAGTCACAGAGTCAAGCGATTAACAGGCATGAGATTTGAA
GCCATGGAAAGATATGATGATGCTATACAGCTATATGATAGGATTTTACAAGAAGATCCAACTAACACTGCTGCA
AGAAAGCGTAAGATTGCCATTCGAAAAGCCCAGGGGAAAAATGTGGAGGCCATTCGGGAGCTGAATGAGTATCTG
GAACAATTTGTTGGAGACCAAGAAGCCTGGCATGAACTTGCAGAACTTTACATCAATGAACATGACTATGCAAAA
GCAGCCTTTTGTTTAGAGGAACTAATGATGACTAATCCACACAACCACTTATACTGTCAGCAGTATGCTGAAGTT
AAGTATACCCAAGGTGGACTTGAAAACCTCGAACTTTCAAGAAAGTATTTTGCACAGGCATTGAAACTGAACAAC
AGAAATATGAGAGCTTTGTTTGGACTTTATATGTCGGCAAGTCATATTGCTTCTAATCCAAAAGCAAGTGCAAAA
ACGAAAAAGGACAACATGAAATATGCTAGTTGGGCAGCTAGTCAAATAAACAGAGCTTATCAGTTTGCAGGTCGA
AGTAAGAAGGAAACCAAATATTCTCTTAAGGCTGTCGAAGACATGTTGGAAACATTGCAGATCACCCAGTCT**TAA**

GGTTTCAAAAACTCTTTGACATTAGATTTCACAACTGCACAATTGAACTTATTGGCCTGTAACTTATTTACTAAA
TGCTCAGTGCTATTTATATACTACAGTAATTTTCTGTTAAGAAGGCAGTTGTAAAGAATGTGTTTATATAAACCT
AAAAATGCCTTTTACTGCTAAGTGGGGAGATGGGGGAAATCCATGGAAGAGAGATTTAAGACTTATTGATTGTAC
ATCAGTCTCTTCATATCACATATACATGTATATATATAAAACTCAATGTAGTATAACCTTGTTAAATAAACCAT
GATGATTTATTAAACTTGC

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FIGURE 756

MAKVSELYDVTWEEMRDKMRKWREENSRNSEQIVEVGEELINEYASKLGDDIWIIYEQVMIAALDYGRDDLALFC
LQELRRQFPGSHRVKRLTGMRFEAMERYDDAIQLYDRILQEDPTNTAARKRKIAIRKAQGKNVEAIRELNEYLEQ
FVGDQEAWHELAELYINEHDYAKAAFCLEELMMTNPHNHLYCQQYAEVKYTQGGLENLELSRKYFAQALKLNNRN
MRALFGLYMSASHIASNPKASAKTKKDNMKYASWAASQINRAYQFAGRSKKETKYSLKAVEDMLETLQITQS

FIGURE 757

GAAGCTGGACTGCAGCTGGTTTCAGGAACTTCTCTTGACGAGAAGAGAGACCAAGGAGGCCAAGCAGGGGCTGGG
CCAGAGGTGCCAACATGGGGAAACTGAGGCTCGGCTCGGAAAGGTGAAGTAACTTGTCCAAGATCACAAAGCTGG
TGAACATCAAGTTGGTGCT**ATG**GCAAGGCTGGGAAACTGCAGCCTGACTTGGGCTGCCCTGATCATCCTGCTGCT
CCCCGGAAGTCTGGAGGAGTGCGGGCACATCAGTGTCTCAGCCCCCATCGTCCACCTGGGGGGATCCCATCACAGC
CTCCTGCATCATCAAGCAGAACTGCAGCCATCTGGACCCGGAGCCACAGATTCTGTGGAGACTGGGAGCAGAGCT
TCAGCCCGGGGGCAGGCAGCAGCGTCTGTCTGATGGGACCCAGGAATCTATCATCACCCTGCCCCACCTCAACCA
CACTCAGGCCTTTCTCTCCTGCTGCCTGAACTGGGGCAACAGCCTGCAGATCCTGGACCAGGTTGAGCTGCGCGC
AGGCTACCCTCCAGCCATACCCCACAACCTCTCCTGCCTCATGAACCTCACAACCAGCAGCCTCATCTGCCAGTG
GGAGCCAGGACCTGAGACCCACCTACCCACCAGCTTCACTCTGAAGAGTTTCAAGAGCCGGGGCAACTGTCAGAC
CCAAGGGGACTCCATCCTGGACTGCGTGCCCAAGGACGGGCAGAGCCACTGCTGCATCCCACGCAAACACCTGCT
GTTGTACCAGAATATGGGCATCTGGGTGCAGGCAGAGAATGCGCTGGGGACCAGCATGTCCCCACAACTGTGTCT
TGATCCCATGGATGTTGTGAAACTGGAGCCCCCCATGCTGCGGACCATGGACCCCAGCCCTGAAGCGGCCCCTCC
CCAGGCAGGCTGCCTACAGCTGTGCTGGGAGCCATGGCAGCCAGGCCTGCACATAAATCAGAAGTGTGAGCTGCG
CCACAAGCCGCAGCGTGGAGAAGCCAGCTGGGCACTGGTGGGCCCCCTCCCCTTGGAGGCCCTTCAGTATGAGCT
CTGCGGGCTCCTCCCAGCCACGGCCTACACCCTGCAGATACGCTGCATCCGCTGGCCCCTGCCTGGCCACTGGAG
CGACTGGAGCCCCAGCCTGGAGCTGAGAACTACCGAACGGGCCCCCACTGTCAGACTGGACACATGGTGGCGGCA
GAGGCAGCTGGACCCCAGGACAGTGCAGCTGTTCTGGAAGCCAGTGCCCCTGGAGGAAGACAGCGGACGGATCCA
AGGTTATGTGGTTTCTTGGAGACCCTCAGGCCAGGCTGGGGCCATCCTGCCCCTCTGCAACACCACAGAGCTCAG
CTGCACCTTCCACCTGCCTTCAGAAGCCCAGGAGGTGGCCCTTGTGGCCTATAACTCAGCCGGGACCTCTCGCCC
CACCCCGGTGGTCTTCTCAGAAAGCAGAGGCCCAGCTCTGACCAGACTCCATGCCATGGCCCGAGACCCTCACAG
CCTCTGGGTAGGCTGGGAGCCCCCCAATCCATGGCCTCAGGGCTATGTGATTGAGTGGGGCCTGGGCCCCCCCAG
CGCGAGCAATAGCAACAAGACCTGGAGGATGGAACAGAATGGGAGAGCCACGGGGTTTCTGCTGAAGGAGAACAT
CAGGCCCTTTCAGCTCTATGAGATCATCGTGACTCCCTTGTACCAGGACACCATGGGACCCTCCCAGCATGTCTA
TGCCTACTCTCAAGAAATGGCTCCCTCCCATGCCCCAGAGCTGCATCTAAAGCACATTGGCAAGACCTGGGCACA
GCTGGAGTGGGTGCCTGAGCCCCCTGAGCTGGGGAAGAGCCCCCTTACCCACTACACCATCTTCTGGACCAACGC
TCAGAACCAGTCCTTCTCCGCCATCCTGAATGCCTCCTCCCGTGGCTTTGTCCTCCATGGCCTGGAGCCCGCCAG
TCTGTATCACATCCACCTCATGGCTGCCAGCCAGGCTGGGGCCACCAACAGTACAGTCCTCACCCTGATGACCTT
GACCCCAGAGGGGTCGGAGCTACACATCATCCTGGGCCTGTTCGGCCTCCTGCTGTTGCTCACCTGCCTCTGTGG
AACTGCCTGGCTCTGTTGCAGCCCCAACAGGAAGAATCCCCTCTGGCCAAGTGTCCCAGACCCAGCTCACAGCAG
CCTGGGCTCCTGGGTGCCCACAATCATGGAGGAGGATGCCTTCCAGCTGCCCGGCCTTGGCACGCCACCCATCAC
CAAGCTCACAGTGCTGGAGGAGGATGAAAAGAAGCCGGTGCCCTGGGAGTCCCATAACAGCTCAGAGACCTGTGG
CCTCCCCACTCTGGTCCAGACCTATGTGCTCCAGGGGGACCCAAGAGCAGTTTCCACCCAGCCCCAATCCCAGTC
TGGCACCAGCGATCAGGTCCTTTATGGGCAGCTGCTGGGCAGCCCCACAAGCCCAGGGCCAGGGCACTATCTCCG
CTGTGACTCCACTCAGCCCCTCTTGGCGGGCCTCACCCCCAGCCCCAAGTCCTATGAGAACCTCTGGTTCCAGGC
CAGCCCCTTGGGGACCCTGGTAACCCCAGCCCCAAGCCAGGAGGACGACTGTGTCTTTGGGCCACTGCTCAACTT
CCCCCTCCTGCAGGGGATCCGGGTCCATGGGATGGAGGCGCTGGGGAGCTTC**TAG**GCTTCCTGGGGTTCCCTTC
TTGGGCCTGCCTCTTAAAGGCCTGAGCTAGCTGGAGAAGAGGGGAGGGTCCATAAGCCCATGACTAAAAACTACC
CCAGCCCAGGCTCTCACCATCTCCAGTCACCAGCATCTCCCTCTCCTCCCAATCTCCATAGGCTGGGCCTCCCAG
GCGATCTGCATACTTTAAGGACCAGATCATGCTCCATCCAGCCCCACCCAATGGCCTTTTGTGCTTGTTTCCTAT
AACTTCAGTATTGTAAAC

FIGURE 758

MARLGNCSLTWAALIILLLPGSLEECGHISVSAPIVHLGDPITASCIIKQNCSHLDPEPQILWRLGAELQPGGRQ
QRLSDGTQESIITLPHLNHTQAFLSCCLNWGNSLQILDQVELRAGYPPAIPHNLSCLMNLTTSSLICQWEPGPET
HLPTSFTLKSFKSRGNCQTQGDSILDCVPKDGQSHCCIPRKHLLLYQNMGIWVQAENALGTSMSPQLCLDPMDVV
KLEPPMLRTMDPSPEAAPPQAGCLQLCWEPWQPGLHINQKCELRHKPQRGEASWALVGPLPLEALQYELCGLLPA
TAYTLQIRCIRWPLPGHWSDWSPSLELRTTERAPTVRLDTWWRQRQLDPRTVQLFWKPVPLEEDSGRIQGYVVSW
RPSGQAGAILPLCNTTELSCTFHLPSEAQEVALVAYNSAGTSRPTPVVFSESRGPALTRLHAMARDPHSLWVGWE
PPNPWPQGYVIEWGLGPPSASNSNKTWRMEQNGRATGFLLKENIRPFQLYEIIVTPLYQDTMGPSQHVYAYSQEM
APSHAPELHLKHIGKTWAQLEWVPEPPELGKSPLTHYTIFWTNAQNQSFSAILNASSRGFVLHGLEPASLYHIHL
MAASQAGATNSTVLTLMTLTPEGSELHIILGLFGLLLLLTCLCGTAWLCCSPNRKNPLWPSVPDPAHSSLGSWVP
TIMEEDAFQLPGLGTPPITKLTVLEEDEKKPVPWESHNSSETCGLPTLVQTYVLQGDPRAVSTQPQSQSGTSDQV
LYGQLLGSPTSPGPGHYLRCDSTQPLLAGLTPSPKSYENLWFQASPLGTLVTPAPSQEDDCVFGPLLNFPLLQGI
RVHGMEALGSF

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FIGURE 759

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GCTGACTCCAGTGTCCCGAGAGGCGCCGCTTCTTCCGCTTTCTCGTCAGGCTCCTGCAACCCCAGGCATGAACCA
AGGTTTCTGAACTACTGGGCGGGAGCCAACGTCTCTTCTTTCTCCCGCTCTGGCGGAGGCTTTGTCGCTGCGGGC
TGGGCCCCAGGGTGTCCCCCATGGCGGGGCCGCGGGTGGAGGTCGATGGCAGCATCATGGAAGGGGGCGGCCAGA
TCCTGAGAGTCTCTACGGCCTTGAGCTGTCTCCTAGGCCTCCCCTTGCGGGTGCAGAAGATCCGAGCCGGCCGGA
GCACGCCAGGCCTGAGGCCTCAACATTTATCTGGACTGGAAATGATTCGAGATTTGTGTGATGGGCAACTGGAGG
GGGCAGAAATTGGCTCAACAGAAATAACCTTTACACCAGAGAAGATCAAAGGTGGAATCCACACAGCAGATACCA
AGACAGCAGGGAGTGTGTGCCTCTTGATGCAGGTCTCAATGCCGTGTGTTCTCTTTGCTGCTTCTCCATCAGAAC
TTCATTTGAAAGGTGGAACTAATGCTGAAATGGCACCACAGATCGATTATACAGTGATGGTCTTCAAGCCAATTG
TTGAAAAATTTGGTTTCATATTTAATTGTGACATTAAAACAAGGGGATATTACCCAAAAGGGGGTGGTGAAGTGA
TTGTTCGAATGTCACCAGTTAAACAATTGAACCCTATAAATTTAACTGAGCGTGGCTGTGTGACTAAGATATATG
GAAGAGCTTTCGTTGCTGGTGTTTTGCCATTTAAAGTAGCAAAAGATATGGCAGCGGCAGCAGTTAGATGCATCA
GAAAGGAGATCCGGGATTTGTATGTTAACATCCAGCCTGTTCAAGAACCTAAAGACCAAGCATTTGGCAATGGAA
ATGGAATAATAATTATTGCTGAGACCTCCACTGGCTGTTTGTTTGCTGGATCATCGCTTGGTAAACGAGGTGTAA
ATGCAGACAAAGTTGGAATTGAAGCTGCCGAAATGCTATTAGCAAATCTTAGACATGGTGGTACTGTGGATGAGT
ATCTGCAAGACCAGCTGATTGTTTTCATGGCATTAGCCAATGGAGTTTCCAGAATAAAAACAGGACCAGTTACAC
TCCATACGCAAACCGCGATACATTTTGCTGAACAAATAGCAAAGGCTAAATTTATTGTGAAGAAATCAGAAGATG
AAGAAGACGCCGCTAAAGATACTTATATTATTGAATGCCAAGGAATTGGGATGACAAATCCAAATCTATAGAGTA
TTTGCCTCTTAAATGATACCTCATTGATATATTGCACTATTTCATAAATACTATAAAATAATGACTAGGAAGTAA
CTTATTAAAGGCTATGACTTAAATTTGAAGATGAAGTACAGTGTTCTAGGTTTGCTGAGAAGGCTTCATTAAATT
AATCTCACTTTGAATATCTCCTGAGAGATGGACAATGAAATATCAGTTGGTGGATATGTGTGATAGCTGATTTCA
ATATTGAAGTATTGAAATAAAATATTCTTTACACCTGAG
```

FIGURE 760

MAGPRVEVDGSIMEGGGQILRVSTALSCLLGLPLRVQKIRAGRSTPGLRPQHLSGLEMIRDLCDGQLEGAEIGST
EITFTPEKIKGGIHTADTKTAGSVCLLMQVSMPCVLFAASPSELHLKGGTNAEMAPQIDYTVMVFKPIVEKFGFI
FNCDIKTRGYYPKGGGEVIVRMSPVKQLNPINLTERGCVTKIYGRAFVAGVLPFKVAKDMAAAAVRCIRKEIRDL
YVNIQPVQEPKDQAFGNGNGIIIIAETSTGCLFAGSSLGKRGVNADKVGIEAAEMLLANLRHGGTVDEYLQDQLI
VFMALANGVSRIKTGPVTLHTQTAIHFAEQIAKAKFIVKKSEDEEDAAKDTYIIECQGIGMTNPNL

FIGURE 761A

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GCGGCCGCTGGCTCCCGGCCGCCGCCACCTTCCCCGTGCAAGACCCGGCCAGCGGCGCCGCTCTGGGCATGGTAG
CCGACTGCGGGGTGCGAGAGGCCCGCGCCGCCGTGCGCGCTGCCTACGAGGCTTTCTGCCGCTGGAGGGAGGTCT
CCGCCAAGGAGAGGAGTTCATTACTTCGGAAGTGGTACAATTTAATGATACAAAATAAGGATGACCTTGCCAGAA
TAATCACAGCTGAAAGTGGAAAGCCACTGAAGGAGGCACATGGAGAAATTCTCTATTCCGCCTTTTTCCTAGAGT
GGTTCTCTGAGGAAGCCCGCCGTGTTTACGGAGACATTATCTACACCCCGGCAAAGGACAGGCGGGGCCCTGGTC
CTCAAGCAGCCCATAGGCGTGGGCTGCAGTCATCACCCCGTGGAATTTCCCCAGTGCCATGATCACCCGGAAGGT
GGGGGCCGCCCTGGCAGCCGGCTGTACTGTCGTGGTGAAGCCTGCCGAAGACACGCCCTTCTCCGCCCTGGCCCT
GGCTGAGCTTGCAAGCCAGGCTGGGATTCCTTCAGGTGTATACAATGTTATTCCCTGTTCTCGAAAGAATGCCAA
GGAAGTAGGGGAGGCAATTTGTACTGATCCTCTGGTGTCCAAAATTTCCTTTACTGGTTCAACAACTACAGGAAA
GATCCTGTTGCACCACGCAGCAAACTCTGTGAAAAGGGTCTCTATGGAGCTGGGCGGCCTTGCTCCATTTATAGT
ATTTGACAGTGCCAACGTGGACCAGGCTGTAGCAGGGGCCATGGCATCTAAATTTAGGAACACTGGACAGACTTG
TGTTTGCTCAAACCAATTCTTGGTGCAAAGGGGCATCCATGATGCCTTTGTAAAAGCATTCGCCGAGGCCATGAA
GAAGAACCTGCGCGTAGGTAATGGATTTGAGGAAGGAACTACTCAGGGCCCATTAATTAATGAAAAAGCGGTAGA
AAAGGTGGAGAAACAGGTGAATGATGCCGTTTCTAAAGGTGCCACCGTTGTGACAGGTGGAAAACGACACCAACT
TGGAAAAAATTTCTTTGAGCCTACCCTGCTGTGCAATGTCACCCAGGACATGCTGTGCACTCATGAAGAGACTTT
CGGGCCTCTGGCACCAGTTATCAAGTTCGATACAGAGGAGGAGGCTATAGCAATCGCTAACGCAGCTGATGTTGG
GTTAGCAGGTTATTTTTACTCTCAAGACCCAGCCCAGATCTGGAGAGTGGCAGAGCAGCTGGAAGTGGGCATGGT
TGGCGTCAACGAAGGATTAATTTCCTCTGTGGAGTGCCCTTTTGGTGGAGTGAAGCAGTCCGGCCTTGGGCGAGA
GGGGTCCAAGTATGGCATTGATGAGTATCTGGAACTCAAGTATGTGTGTTACGGGGGCTTG**TAG**GATTCTTTGGT
TCTTTAAAAAAATTTAAAAGGAGACTTATCTACATATATAGGTACATGCCATCCATTATTTTAAATAAACTAATA
GGTTTTCAGAATTATGAATTTTTCAGAACTCATCCAGTCCTTGTAATCTTAAACAGATGCAAATCCTACCCCTGC
CCTTAATGTAACTAGGGACCAATATGTGCCACGTGCCTGTGGCTGCAGACTCCCAGAGAACCAGCACTGGGTTTA
CAGAATGAGGCCCTGGCTCCCCACCACAGCCCCAGCTGCCTCAGAGCAGGCACAGCACAAGGCAGGCCCAGCCCC
ATGGGCCGTCACAAAGGCTTGATCACTGCCTGGGCAGTGGCACAACCATCCCCCATGTCGCTACAGAACATGGGC
CCAGAGCACCTTGAAGGAGACCCTTGACTGTGACTGGCAGGCAGGTGAGGGGCACAGCACCCCTCCCCGGCATCT
GCCAGCTCAGCACAGAAGACACCGAATGTGCATCTGGAGGTGTTGCGGCAGAGGTTTGAGTGAACCCTCTTTCAA
AGACAATAAATAGCACAGAATTGTCCGTGCTTCTGTGAGGCACGAAGGAGCACCTCTCCCTATTCCTGAACCATA
TTTTAATTGATGCCTTTATTGTCCCAAATTTACCACTTAAAGAATTCTATTTTCATTTCTGTCCTGTTTGCCACT
TCATTTCATTTCCTTGAGTAAATGAGCTGAAGTGTAAAGCAAAGAATAGCAGAAGCAGCTTGGTAGGATGGAAGG
CACGCAGTGGCATGGCCTGGCTCCTTCCCTGAGTGGCCTTGTTGCCTTGGGCGTGTGTTCAGCACCTCCCATCCC
ATGGATACAGTGGAGATTCCATACAGGCCTTACTTAGCTCCTTGCGATACTGTGAGCCAGAGAGAAAGTAAAAGC
ACTTCACAAAAAAATGAAAATTCTAAGGACATACAAGAGCCATTGTTACGAGCAGCACCGCCCAGCCCTTCCTTG
CCTACTGTCAGTGGCTTTGCCAAGATGGGAGGAGGCCAGTGCCCACTTGCCCACCGACCTGAGCCTGAGTAAGTG
GCTGTCACCTGAGCCTGTTCTTTCTGTCCTGGTGTGGTGCTGCTCCCTCACCTCCAAAAGAGCAAAAGTACTTTC
ACCACAGTCAACCCAAAAGGGAAAGAATTTCTGTAATTGCCAACCCACTTTGTAGAAGAGGCATGAGCCCTTGAA
TTTCAGGCACCTTTTATCTAATGAGAGTTTTTACAGCTCATCATTCAAATAACGCACAAAAAACAAAAGCCGCTA
TGACCGGCGTTGCCTCTCACTTTGAAAGAAAGACTCCGTAATCTTAAACAGATGCAAATCCAATTAGGCGGCCAA
GTAGGTGGAGACGAAGCACCTTCCTTTCCCCATCTCTGTCTGTGTAGACTCCACTTACATCTTGTGGTTATTCTG
GGTTGTGGAAGGAAAATGTGAATGAAAGTAGTGCTGGATGCAATTACTCCTGAACCCCACCTAGGATTTAACATC
CCTCATTGAGCCACTGGGAAGCTATGGTTGAGTAACTAAAGGTCTGGCAAGACCCTGGGCACACAGGGAGCTGCC
TAGCATCTGGCCTGGAGTGTACTAGCCACATTCCCAAGGTCCCAAGGAGAAGGAAGAGCTGAAATTCATCTCCTA
GTGACAGTGCCCCGGCCCTGTCAAGAATCACATACTCAGCATTTTGACAGTTAATGTCTTCTCTTTATTTGTGTA
GTTTTTAGGTGGTTTTATATAACATTTTAATTACTTGTGATTTAGATGTATCCATCCTTTNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNTGCTCCAACATTATTTTTTATAACTCTGGATTACCGATGCTGAGATGTGTGCAGGAATACTTCCAA
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FIGURE 761B

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ATAAATTTTTAACATTGTAAGCCAGTAGATTCTTTGGCTGGGTGGCAAATTTTGAGTCTTCTTGCATATTTGGCT
CATGGGTTCATAAATTGAGGCCAGAGACTCATTGTATATCCTTGATCAATTTTCTAATTAAAGGAAATAGCTTAT
TGTTTAGTAAAATGGCCCTTGGTTGTGGGAAGAAAGAGAATTATTTTTAACTGAACGTTTTTGTTGTTTTTTAAA
TAAAGTAGCCATATGTAACGGGATTTTAAAAATATATACATTTTACAACATGGACTAGAAAAGGACCATTAGATC
AGGGGTTGGCAAACTATGGCCCACGAATCAAACCTGGCCTGCCACCTGTTTTTATACAACCTGTGAGCTAAGAAT
GGTTTATATGTTTTCAAATGATTGGGCAGAAAATCAAAAGAAGAACAATATTTCATGACACCTGAAAATTCTATG
AAATTCAGATTTCAGTGTCCATAAACAAAATGTTATTAGAGCATAGCCACACCCATTCATTTATGGTATTGTCTG
GGACTGCTTTCTTGGCAGAGTTGAATAGTTGGGACAGGGACAGTATAGCCTGCAAAGCCTAAAAGATTTACTACT
TGTCTCCTTAAAGAAAAGTTTGCCAGCTCCTGATCTAGACCAAGAGGGAGATATTGACCTTACTTGCATTTATC
CGGCATTATTTCAACACCTCCTGTGAAGAAAGTACTTTTCTGGCATAGCTACCGTGAGTTCTCAGCAGGAACTTC
CCAGCGATGATAATGTACATGAAATTAGCCACGTAACAAGAGTCTATTTGCCTTGAAAAAACAATTATCCTTGAA
CTTCCTCCAGCTATGCAGGGATTCTCATTAAAGAGCTGATCTGCATCTGTTTATCCATTTTAGTAGCTTTTAAAT
ATGATTTTATGTGAAGTGCCATTTCTTTATTCTACTAAAGAGAGACAGCAGAAATAAAGATCAGAAGCAAATGTG
AGCAAATCTGTTTTACTGTTAACTTCAATTATGAACTTGAAATTGTGCCACATGACTTTTTCCTCTAAAAACTGG
ATCCTAGTGTTTTAATTACCTGTGTGCAGCTATTTTAAATAGCATTTTACTTGAATAATATGTATGTTGTCATTG
TTTCATGCTATACTTTGTGGGATAAAACTTGGGAATGAGTGTGGTAAGAAATTTATAAAGTTTTGCTTTTAAAAC
GTGGACATAACTCATTTTTCTAGTTTTTGACAATTGTGTGTTTAGTGTCTAGTCTGCAGAGAGCTGTGTGATTA
ATAAACGTGGAATTAACAGAATTTCCTCTCCCTGTAAAAAAAGAAAAAAAAACGAAA
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FIGURE 762

GRWLPAAATFPVQDPASGAALGMVADCGVREARAAVRAAYEAFCRWREVSAKERSSLLRKWYNLMIQNKDDLARI
ITAESGKPLKEAHGEILYSAFFLEWFSEEARRVYGDIIYTPAKDRRGPGPQAAHRAWAAVITPWNFPSAMITRKV
GAALAAGCTVVVKPAEDTPFSALALAELASQAGIPSGVYNVIPCSRKNAKEVGEAICTDPLVSKISFTGSTTTGK
ILLHHAANSVKRVSMELGGLAPFIVFDSANVDQAVAGAMASKFRNTGQTCVCSNQFLVQRGIHDAFVKAFAEAMK
KNLRVGNGFEEGTTQGPLINEKAVEKVEKQVNDAVSKGATVVTGGKRHQLGKNFFEPTLLCNVTQDMLCTHEETF
GPLAPVIKFDTEEEAIAIANAADVGLAGYFYSQDPAQIWRVAEQLEVGMVGVNEGLISSVECPFGGVKQSGLGRE
GSKYGIDEYLELKYVCYGGL

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FIGURE 763

GGGGGTTCCCGCAAGGTCGCTTTGCAGAGCGGGAGCGCGCTTAAGTAACTAGTCCGTAGTTCGAGGGTGCGCCGT
GTCCTTTTGCGTTGGTACCAGCGGCGAC**ATG**ACGGGGTACACTCCGGATGAGAAACTGCGGCTGCAGCAGCTGCG
AGAGCTGAGAAGGCGATGGCTGAAGGACCAGGAGCTGAGCCCTCGGGAGCCGGTGCTGCCCCCACAGAAGATGGG
GCCTATGGAGAAATTCTGGAATAAATTTTTGGAGAATAAATCCCCTTGGAGGAAAATGGTCCATGGGGTATACAA
AAAGAGTATCTTTGTTTTCACTCATGTACTTGTACCTGTCTGGATTATTCATTATTACATGAAGTATCATGTTTC
TGAAAAACCATATGGCATAGTTGAAAAGAAGTCCAGAATATTCCCTGGTGATACAATTCTGGAGACTGGAGAAGT
AATTCCACCAATGAAAGAATTTCCTGATCAACATCAT**TAA**AGATTATGTAAAAAGTTAAAAGGCTTATGAGCCTA
AGTTTGTTCCTATATTACCATATTTACTGAATTTTCTGGAAAAGTAACTTTAATAAAGTTTAATCTCAGAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 764

MTGYTPDEKLRLQQLRELRRRWLKDQELSPREPVLPPQKMGPMEKFWNKFLENKSPWRKMVHGVYKKSIFVFTHV
LVPVWIIHYYMKYHVSEKPYGIVEKKSRIFPGDTILETGEVIPPMKEFPDQHH

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FIGURE 765

TTTCCACATGTGAGGGGCTGAGGGGCTCAAGGAGGGGAGCATCTCCACTGGGTGGAGGCTGGGGGTCCCAGCAGG
AAATGGTGAGACAAAGGGCGCTGGCTGGCAGGGAGACAGCACAGGAAGGTCCTAGAGCTTCCTCAGTGCAGCTGG
ACTCTCCTGGAGACCTTCACACACCCTGATATCTGGGCCTTGCCCGACGAGGGTGCTTTCACTGGTCTGCACCAT
GGCCCAGGCCCTGGGATTTTGAACAGCTCCGCAGGTGAATGAAAGGTGAGGCCAGGCTGGGGAACCACCGCATTA
GAGCCCGACCTGGTTTTCAGCCCCAGCCCCGCCACTGACTGGCTTTGTGAGTGCGGGCAAGTCACTCAGCCTCCC
TAGGCCTCAGTGACTTCCCTGAAAGCAAGAATTCCACTTTCTTGCTGTTGTGATGGTGGTAAGGGAACGGGCCTG
GCTCTGGCCCCTGACGCAGGAAC**ATG**GAGCTGATCCAGGACACCTCCCGCCCGCCACTGGAGTACGTGAAGGGGG
TCCCGCTCATCAAGTACTTTGCAGAGGCACTGGGGCCCCTGCAGAGCTTCCAGGCCCGGCCTGATGACCTGCTCA
TCAGCACCTACCCCAAGTCCGGCACCACCTGGGTGAGCCAGATTCTGGACATGATCTACCAGGGTGGTGACCTGG
AGAAGTGTCACCGAGCTCCCATCTTCATGCGGGTGCCCTTCCTTGAGTTCAAAGCCCCAGGGATTCCCTCAGGGA
TGGAGACTCTGAAAGACACACCGGCCCCACGACTCCTGAAGACACACCTGCCCCTGGCTCTGCTCCCCCAGACTC
TGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCCCGCAACGCAAAGGATGTGGCAGTTTCCTACTACCACTTCT
ACCACATGGCCAAGGTGCACCCTGAGCCTGGGACCTGGGACAGCTTCCTGGAGAAGTTCATGGTCGGAGAAGTGT
CCTACGGATCCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGCACCCACCCTGTTCTCTACCTCTTCT
ATGAAGACATGAAGGAGAACCCCAAAAGGGAGATTCAAAAGATCCTGGAGTTTGTGGGGCACTCCCTGCCAGAGG
AGACCGTGGACTTCATGGTTCAGCACACGTCGTTCAAGGAGATGAAGAAGAACCCTATGACCAACTACACCACCG
TCCCCCAGGAGTTCATGGACCACAGCATCTCCCCCTTCATGAGGAAAGGCATGGCTGGGGACTGGAAGACCACCT
TCACCGTGGCGCAGAATGAGCGCTTCGATGCGGACTATGCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCT
CTGAGCTG**TGA**GAGGGGCTCCTGGGGTCACTGCAGAGGGAGTGTGCGAATCAAACCTGACCAAGCGGCTCAAGAA
TAAAATATGAATTGAGGGCCTGGGACGGTAGGTCATGTCTGTAATCCCAGCAATTTGGAGGCTGAGGTGGGAGGA
TCATTTGAGCCCAGGAGTTCGAGACCAACCTGGGCAACATAGTGAGATTCTGTTAAAAAAATAAAATAAAATAAA
ACCAATTTTT

FIGURE 766

MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLLISTYPKSGTTWVSQILDMIYQGGDLEKCHRAPI
FMRVPFLEFKAPGIPSGMETLKDTPAPRLLKTHLPLALLPQTLLDQKVKVVYVARNAKDVAVSYYHFYHMAKVHP
EPGTWDSFLEKFMVGEVSYGSWYQHVQEWWELSRTHPVLYLFYEDMKENPKREIQKILEFVGHSLPEETVDFMVQ
HTSFKEMKKNPMTNYTTVPQEFMDHSISPFMRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL

FIGURE 767

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GACGGCGGTGGCGGCGTCGGAGGCGCCTCCGGGGGACGGTGGCGGCTCCCGGCGGTGAGGCCGCGCCTGTCCGGG
GATCGTCGAGGGACGGCGGGAGCTTGGGCCAGCGGCGGCGGCGGCCTGGGACGCAGGCGGAGCCCCGCGCAGGCC
CAAGGTCCCGGAGGCTATGGCAGCGGCTACCATCGTGCACGACACGTCTGAGGCCGTGGAGCTCTGCCCTGCTTA
CGGCTTGTACCTGAAGCCCATCACCAAGATGACCATCAGCGTGGCACTCCCGCAGCTGAAGCAGCCGGGGAAGTC
CATCTCCAACTGGGAGGTGATGGAGAGGCTGAAGGGCATGGTGCAGAACCACCAGTTCTCCACGCTGCGTATTTC
CAAGAGCACCATGGACTTCATCCGCTTCGAGGGGGAGGTGGAGAACAAGAGCCTGGTCAAGTCTTTTCTGGCCTG
CCTGGACGGCAAGACCATCAAGCTCAGCGGCTTCTCCGACATCCTGAAGGTGCGCGCGGCCGAGTTCAAGATCGA
CTTCCCCACCCGCCACGACTGGGACTCCTTCTTCCGCGACGCCAAGGACATGAACGAGACCCTGCCGGGGGAGCG
GCCGGACACCATCCACCTGGAGGGGCTGCCCTGCAAGTGGTTCGCCCTGAAGGAGTCGGGCTCCGAGAAGCCCAG
CGAGGACGTCCTGGTCAAGGTGTTTGAGAAGTTCGGGGAGATCCGGAATGTGGACATCCCCATGCTGGACCCCTA
CCGGGAGGAGATGACGGGCCGCAACTTCCACACCTTCAGTTTCGGGGGGCACTTGAACTTCGAGGCCTATGTGCA
GTACCGTGAGTACATGGGCTTCATCCAGGCCATGAGCGCCCTGCGCGGGATGAAACTCATGTACAAGGGCGAGGA
CGGCAAGGCCGTGGCCTGCAACATCAAGGTTTCTTTTGATTCGACCAAACACCTGAGTGATGCCTCAATTAAGAA
GCGGCAGCTGGAGAGGCAGAAGCTTCAGGAACTGGAGCAGCAAAGAGAAGAACAAAAGCGCAGAGAGAAGGAAGC
GGAGGAGAGGCAGCGAGCGGAGGAAAGGAAACAAAAGGAGCTGGAAGAGCTGGAGCGAGAGAGGAAAAGAGAAGA
GAAGCTTCGCAAGAGGGAGCAGAAGCAGAGGGACCGTGAGCTGCGCCGGAATCAGAAGAAGCTGGAGAAGCTGCA
GGCGGAGGAGCAGAAGCAGCTGCAGGAGAAGATCAAGCTGGAGGAGCGCAAGCTGCTGCTGGCCCAGAGGAACCT
GCAGTCCATCCGGCTCATCGCCGAGCTGCTCAGCAGAGCCAAGTTGTGATAAGTCCCCGGGAAGGAGCATGACAA
GAGGCTGAGACATGTGGCAGCCCAGTCCTTACCTCATGGCTGTGAAGCTACGGGAACAGGAGCAGAAGGAGGAGA
AGCTGAGGCTCCAGCAGCAGGAGGAGCGGCGGCGGCTGCAGGAGGCCGAGCTGCGGCGCGTGGAGGAGGAGAAGG
AGCGCGCGCTGGGCCTGCAGCGGAAAGAGCGGGAGCTGCGCGAGCGGCTGCTGAGCATCCTGCTGAGCAAGAAGC
CGGACGACAGCCACACACACGACGAGCTGGGCGTGGCACACGCCGACCTGCTGCAGCCCGTCCTGGACATCCTGC
AGACCGTGTCGTCCGGCTGTGTGAGCGCCACCACGCTGCACCCCCTCGGGGGCCAGCCCCCGGCCGGTGCCCCCA
AGGAGAGCGCGGCCCACCCAGAGGCCGACGGCGCTCCCAAAAGCGTGAACGGGAGCGTGGCCGAGGAGGCCCCAT
GCAAGGAGGTTCAGAGCTCCTGTCGTGTGGTCCCCGAGGATGGCTCTCCAGAGAAGAGGTGCCCGGGCGGCGTCC
TCTCCTGCATTCCTGACAACAACCAACAGCCCAAGGGCATCCCTGCCTGCGAGCAGAATGTCTCCAGAAAGGACA
CCCGGTCAGAACAGGACAAGTGCAACCGGGAGCCCAGCAAGGGCCGGGGCCGGGCCACCGGAGACGGGCTTGCTG
ACCGGCACAAGCGGGAGAGGAGCCGGGCCAGGCGGGCCAGCAGCAGGGAGGACGGGAGGCCACGCAAGGAGCGGC
GGCCCCACAAGAAGCACGCCTACAAGGATGACAGCCCCCGCCGGCGCAGCACGAGCCCGGACCACACCCGGTCCC
GGAGGTCCCACAGCAAAGACAGGCACCGGAGGGAGCGGAGCCGGGAGCGGAGGGGCAGCGCCAGCAGGAAGCACA
GCCGCCACCGCCGCCGAAGCGAGCGGTCGCGCTCCCGGTCCCCGAGCAGGCACCGCAGTACCTGGAACAGGTAAT
GACGGGCACGGCCTCCCCACGGCCTGTCCGGGAAAGACCAGGACCTGCTCGAGCCTCCTGGCCGCTCCTTGGCCG
CTCTCCGTCCACCCCTGCAAAGCCAAGACCCTTCTGCAGCCACGAACGTCCACGGAGCCTGCCGGCAGGAAGGAA
GACACCATGCTTTAGAGATCCATCTTTCTCCACTCACCGCAGCGTACTTGGCACTTCAGTTTCAAACACGTAGTC
CTTTAAAACTTGATCCGATAGCTTTAATGCGGCCGGTCCTCTCTCAGTCAGGAAAATTGCACAGACCGACAGTCG
TGAGGATGGCAGAGCTGCTGCATTCCCCCACACGGGGATTTCTGTGTCTGCTTGGCGACCTCCCTGCGTGCACGG
CCTAGGAGGTGCACGGGCCACCATAGTCACACTGGCACTGAAAAGAAAGCGTTGCCCTGGTGATTCTTTCCCCCC
CGTTTGTAATGTTAACTGATCAGGAAGTGCAGTTTGGGTGGGATGCCGAATCGTCGTGCTGACATTGAGTCACGG
ATGAGGAAGGTACAAGTCCTTTAAGATCAAAACTCAAACGGGCCGTTCTTTCTAAGGTGTCGGTATGTGGGGAGT
GGTACAAAATGGTCTGATGCTCCTTCAAAAACATTCACTTTTTACAACGTCAAGGAATTAAGCATAAAAAAGATT
GGTTAAAAGCTTTGGTTTCTAGTAAAGGTTAGTGTGTGTGGTTTTTTTAAGAAGCTGTTTTGCTAAATTATTTTT
ACTTGGAATGTTTCAAACAGATTTCAGGCTGCAAACTTGTTTTATAATCGTTTGCTTCTCCAAGTGAAGCTCAGA
AATACCTAAAAATAGCTGTAACGTTCGCGTTAGGAAAGATGGTGTTTATTCCAGTTTGCATTTTTATGGTGAAAT
AAAATCCG
```

FIGURE 768

MAAATIVHDTSEAVELCPAYGLYLKPITKMTISVALPQLKQPGKSISNWEVMERLKGMVQNHQFSTLRISKSTMD
FIRFEGEVENKSLVKSFLACLDGKTIKLSGFSDILKVRAAEFKIDFPTRHDWDSFFRDAKDMNETLPGERPDTIH
LEGLPCKWFALKESGSEKPSEDVLVKVFEKFGEIRNVDIPMLDPYREEMTGRNFHTFSFGGHLNFEAYVQYREYM
GFIQAMSALRGMKLMYKGEDGKAVACNIKVSFDSTKHLSDASIKKRQLERQKLQELEQQREEQKRREKEAEERQR
AEERKQKELEELERERKREEKLRKREQKQRDRELRRNQKKLEKLQAEEQKQLQEKIKLEERKLLLAQRNLQSIRL
IAELLSRAKL

FIGURE 769

GCCACTCCAGCCCCGCGCCCCTCGCCGCGGCCCTCGGGCGTCTGCGCCGCAGCTGCCGCCCCCGCCTCTTTGGAG
TCTCTCGCGGCCTCAAAGCGCGGCCTGCGTCGCTTCCGGCAGTTCCAGACCGCGGGC**GATG**GCTGCCGCTGGGGG
CGCCCGGCTGCTGCGCGCCGCTTCTGCTGTCCTCGGCGGCCCGGCCGGCCGGTGGCTGCACCACGCTGGGTCCCG
CGCTGGATCCAGCGGCCTGCTGAGGAACCGGGGGCCGGGCGGGAGCGCGGAGGCGAGCCGGTCGCTGAGCGTGTC
GGCGCGGGCCCGGAGCAGCTCAGAAGATAAAATAACAGTCCACTTTATAAACCGTGATGGTGAAACATTAACAAC
CAAAGGAAAAGTTGGTGATTCTCTGCTAGATGTTGTGGTTGAAAATAATCTAGATATTGATGGCTTTGGTGCATG
TGAGGGAACCCTGGCTTGTTCAACCTGTCACCTCATCTTTGAAGATCACATATATGAGAAGTTAGATGCAATCAC
TGATGAGGAGAATGACATGCTCGATCTGGCATATGGACTAACAGACAGATCACGGTTGGGCTGCCAAATCTGTTT
GACAAAATCTATGGACAATATGACTGTTCGAGTGCCTGAAACAGTGGCTGATGCCAGACAATCCATTGATGTGGG
CAAGACCTCC**TGA**ACTAGAACAAATAGGAATATTTTCATGGAATTTTACCTATTTTTATAATTATTATTTCTTAA
AGTGATTAAATGAGAACATGGATGAGTGGACTTCATATTATGACTAGCTTTACTATTTTAATTCACCTTGCATAA
CTACTGAATTTTGTCATTCTTGAAAGTATGCAATTTTTATTTTGGTTATATTACAAAAATGTCAATCAAATATTA
AAAAATAGTTAATGTGATAGAAAAACCTTACATATTTTTTTCTTATGTTTGTTAGCGACTTTAGCAAAATGTTT
TCATATAATCTCATCTGTTTACCTAGAAGATAGGTTAAGGAAATATATTATTATTCCTGTTTGATGTGGGTGAAG
GCAGAGATCTAACCTGGCTTGTTTAGGGCCATACCACTAATTAGAAAATCTGTGCTAGAACCTGTGTCTTATTCC
TATAAGCTATGTGTTCAGACTGAAACTGGAGAAATTATGACTATTTTATTTATAGTAGTAGTTAAATCTGAATGT
GTATGGACTAAAAATATTTAATTGCTGAGTAAACTGCTTAACTTCAAAGATAGTTATTGACCTTATAAATAAATA
TTTCAAAATTTTGATTCGGAAGACTAAGTCTGGAGCTAGACATTATAATGCTATCAAAGAAGTTGATCTCTGTTT
TGACTAAACTAGAGGAAAAATGATTGGATGAGTTTATTCTTTTCTAAGCAGAATGGTTTAACTTTGTACTCAAAG
AAAAATAATGCTGATTTATAAATCTCTGCCTATAATAGAATGG

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FIGURE 770

MAAAGGARLLRAASAVLGGPAGRWLHHAGSRAGSSGLLRNRGPGGSAEASRSLSVSARARSSSEDKITVHFINRD
GETLTTKGKVGDSLLDVVVENNLDIDGFGACEGTLACSTCHLIFEDHIYEKLDAITDEENDMLDLAYGLTDRSRL
GCQICLTKSMDNMTVRVPETVADARQSIDVGKTS

FIGURE 771

CTTCTCTTTTCCCTAGACTGCAGCCAGCGGAGCCCGCAGCCGGCCCGAGCCAGGAACCCAGGTCCGGAGCCTCAA
CTTCAGG**ATG**TTGACAACATTGCTGCCGATACTGCTGCTGTCTGGCTGGGCCTTTTGTAGCCAAGACGCCTCAGA
TGGCCTCCAAAGACTTCATATGCTCCAGATCTCCTACTTCCGCGACCCCTATCACGTGTGGTACCAGGGCAACGC
GTCGCTGGGGGGACACCTAACGCACGTGCTGGAAGGCCCAGACACCAACACCACGATCATTCAGCTGCAGCCCTT
GCAGGAGCCCGAGAGCTGGGCGCGCACGCAGAGTGGCCTGCAGTCCTACCTGCTCCAGTTCCACGGCCTCGTGCG
CCTGGTGCACCAGGAGCGGACCTTGGCCTTTCCTCTGACCATCCGCTGCTTCCTGGGCTGTGAGCTGCCTCCCGA
GGGCTCTAGAGCCCATGTCTTCTTCGAAGTGGCTGTGAATGGGAGCTCCTTTGTGAGTTTCCGGCCGGAGAGAGC
CTTGTGGCAGGCAGACACCCAGGTCACCTCCGGAGTGGTCACCTTCACCCTGCAGCAGCTCAATGCCTACAACCG
CACTCGGTATGAACTGCGGGAATTCCTGGAGGACACCTGTGTGCAGTATGTGCAGAAACATATTTCCGCGGAAAA
CACGAAAGGGAGCCAAACAAGCCGCTCCTACACTTCGCTGGTCCTGGGCGTCCTGGTGGGCGGTTTCATCATTGC
TGGTGTGGCTGTAGGCATCTTCCTGTGCACAGGTGGACGGCGATGT**TAA**TTACTCTCCAGCCCCGTCAGAAGGGG
CTGGATTGATGGAGGCTGGCAAGGGAAAGTTTCAGCTCACTGTGAAGCCAGACTCCCCAACTGAAACACCAGAAG
GTTTGGAGTGACAGCTCCTTTCTTCTCCCACATCTGCCCACTGAAGATTTGAGGGAGGGGAGATGGAGAGGAGAG
GTGGACAAAGTACTTGGTTTGCTAAGAACCTAAGAACGTGTATGCTTTGCTGAATTAGTCTGATAAGTGAATGTT
TATCTATCTTTGTGGAAACAGATAATGGAGTTGGGGCAGGAAGCCTATGGCCCATCCTCCAAAGACAGACAGAA
TCACCTGAGGCGTTCAAAAGATATAACCAAATAAACAAGTCATCCACAATCAAAATACAACATTCAATACTTCCA
GGTGTGTCAGACTTGGGATGGGACGCTGATATAATAGGGTAGAAAGAAGTAACACGAAGAAGTGGTGGAAATGTA
AAATCCAAGTCATATGGCAGTGATCAATTATTAATCAATTAATAATATTAATAAATTTCTTATATTTAAGGCAAA
AAAAAAATAAAAAAAAAAAAAAAAAAAAAA

FIGURE 772

MLTTLLPILLLSGWAFCSQDASDGLQRLHMLQISYFRDPYHVWYQGNASLGGHLTHVLEGPDTNTTIIQLQPLQE
PESWARTQSGLQSYLLQFHGLVRLVHQERTLAFPLTIRCFLGCELPPEGSRAHVFFEVAVNGSSFVSFRPERALW
QADTQVTSGVVTFTLQQLNAYNRTRYELREFLEDTCVQYVQKHISAENTKGSQTSRSYTSLVLGVLVGGFIIAGV
AVGIFLCTGGRRC

FIGURE 773A

ACTCCCGGCCGGGGTAGCTCTTCACTCCTCAGCGCGACGTCGTGTCGAGTTCCCAAAAAGCTCCGCAGGGGCTGT
AGGGAGGTGATCTCATCCATTAACAGCTGTGTGTTGCCAGTTCCCAAATCTTTATCTATCTCAGACTTCTCTCCT
GCATTCCAGATTCTTATATTCAGCTGCCTTTTGGATATCTCTCCCAGGATGTTCTCAAGGCATACAAGAATTAAA
TTCTGAATAAGTCTGCAGGTAGG**ATG**GACAGTTATTTTAAAGCAGCTGTCAGTGACTTGGACAAACTCCTTGATG
ATTTTGAACAGAACCCAGATGAACAAGATTATCTCCAAGATGTACAAAATGCATATGATTCTAACCACTGCTCAG
TTTCTTCAGAGTTGGCTTCCTCACAGCGAACTTCATTGCTCCCAAAAGACCAAGAGTGCGTTAATAGTTGTGCCT
CATCAGAAACAAGCTATGGAACAAATGAGAGTTCCCTGAATGAAAAAACACTCAAGGGACTTACTTCTATACAAA
ATGAAAAAAATGTAACAGGACTTGATCTTCTTTCTTCTGTGGATGGTGGTACTTCAGATGAAATCCAGCCGTTAT
ATATGGGACGATGTAGTAAACCTATCTGTGATCTGATAAGTGACATGGGTAACTTAGTTCATGCAACCAATAGTG
AAGAAGATATTAAAAAATTATTGCCAGATGATTTTAAGTCTAATGCAGATTCCTTGATTGGATTGGATTTATCTT
CAGTGTCAGATACTCCCTGTGTTCTTCAACAGACCATGATAGTGATACTGTCAGAGAACAACAGAATGATACCA
GTTCTGAATTACAAAATAGAGAAATCGGAGGAATCAAAGAATTGGGTATAAAAGTAGATACAACACTTTCAGATT
CCTATAATTACAGTGGAACAGAAAATTTAAAAGATAAAAAGATCTTTAATCAGTTAGAATCAATTGTTGATTTTA
ACATGTCATCTGCTTTGACTCGACAAAGTTCCAAAATGTTTCATGCCAAAGACAAGCTACAACACAAGAGCCAGC
CATGTGGATTACTAAAAGATGTTGGCTTAGTAAAAGAGGAAGTAGATGTGGCAGTCATAACTGCCGCAGAATGTT
TAAAAGAAGAGGGCAAGACAAGTGCTTTGACCTGCAGCCTTCCGAAAAATGAAGATTTATGCTTAAATGATTCAA
ATTCAAGAGATGAAAATTTCAAATTACCTGACTTTTCCTTTCAGGAAGATAAGACTGTTATAAAACAATCTGCAC
AAGAAGACTCAAAAAGTTTAGACCTTAAGGATAATGATGTAATCCAAGATTCCTCTTCAGCTTTACATGTTTCCA
GTAAAGATGTGCCGTCCTCATTGTCCTGTCTTCCTGCGTCTGGGTCTATGTGTGGATCATTAATTGAAAGTAAAG
CACGGGGGTGATTTTTTACCTCAGCATGAACATAAAGATAATATACAAGATGCAGTGACTATACATGAAGAAATAC
AGAACAGTGTTGTTCTAGGTGGGGAACCATTCAAAGAGAATGATCTTTTGAAACAGGAAAAATGTAAAAGCATAC
TCCTTCAGTCATTAATTGAAGGGATGGAAGACAGAAAGATAGATCCTGACCAGACAGTAATCAGAGCTGAGTCTT
TGGATGGTGGTGACACCAGTTCTACAGTTGTAGAATCTCAAGAGGGGCTTTCTGGCACTCATGTCCCAGAGTCTT
CTGATTGTTGTGAAGGTTTTATTAATACTTTTTCAAGCAATGATATGGATGGGCAAGACTTAGATTACTTTAATA
TTGATGAAGGCGCAAAAAGTGGCCCACTAATTAGTGATGCTGAACTTGATGCCTTTCTGACAGAACAGTATCTTC
AGACCACTAACATAAAGTCTTTTGAAGAAAATGTAAATGACTCTAAATCGCAAATGAATCAGATAGATATGAAAG
GCTTAGATGATGGAAACATCAATAATATATATTTCAATGCAGAAGCAGGAGCTATTGGGGAAAGTCATGGTATTA
ATATAATTTGTGAAACAGTTGATAAACAAAATACAATAGAAAATGGCCTTTCTTTAGGAGAAAAAAGCACTATTC
CAGTTCAACAAGGGTTACCTACCAGTAAGTCTGAGATTACAAATCAATTATCAGTCTCTGATATTAACAGTCAAT
CTGTTGGAGGGGCCAGACCTAAGCAATTGTTTAGCCTTCCATCAAGAACAAGGAGTTCAAAGGACCTGAATAAGC
CAGATGTTCCAGATACAATAGAAAGTGAACCCAGCACAGCAGATACCGTTGTTCCAATCACTTGTGCTATAGATT
CTACAGCTGATCCACAGGTTAGCTTCAACTCTAATTACATTGATATAGAAAGTAATTCTGAAGGTGGATCTAGTT
TCGTAACTGCAAATGAAGATTCTGTACCTGAAAACACTTGCAAAGAAGGCTTGGTTTTGGGCCAGAAACAGCCTA
CTTGGGTTCCTGATTCAGAAGCTCCAAACTGTATGAACTGCCAAGTCAAATTTACTTTTACCAAACGGCGACACC
ATTGCCGAGCATGTGGGAAAGTATTTTGTGGTGTCTGTTGTAATAGGAAGTGTAAACTGCAATATCTAGAAAAGG
AAGCAAGAGTATGTGTAGTCTGCTATGAAACTATTAGTAAAGCTCAGGCATTTGAAAGGATGATGAGTCCAACTG
GTTCTAATCTTAAGTCTAATCATTCTGATGAATGTACTACTGTCCAGCCTCCTCAGGAGAACCAAACATCCAGTA
TACCTTCACCAGCAACTTTGCCAGTCTCAGCACTTAAACAACCAGGTGTTGAAGGACTATGTTCCAAAGAACAGA
AGAGAGTATGGTTTGCAGATGGTATATTGCCCAATGGTGAAGTTGCAGATACAACAAAATTATCATCTGGAAGTA
AAAGATGTTCTGAAGACTTTAGTCCTCTCTCACCTGATGTGCCTATGACAGTAAACACAGTGGATCATTCCCATT
CTACTACAGTGGAAAAGCCAAACAATGAGACAGGAGATATTACAAGAAATGAGATAATTCAGAGTCCTATTTCTC
AGGTTCCATCAGTGGAAAAATTGTCTATGAACACAGGAAATGAGGGGTTACCTACTTCTGGTTCATTTACACTAG
ATGATGATGTTTTTGCAGAAACTGAAGAACCATCTAGTCCTACTGGTGTCTTAGTTAACAGCAATTTACCTATTG
CTAGTATTTCAGATTATAGGTTACTGTGTGATATTAACAAGTATGTCTGCAATAAGATTAGTCTTCTACCTAATG
ATGAGGACAGTTTGCCCCCACTTCTGGTTGCATCTGGAGAAAAGGGATCAGTGCCTGTAGTAGAAGAACATCCAT
CTCATGAGCAGATCATTTTGCTTCTTGAAGGTGAAGGCTTTCATCCTGTTACATTTGTCCTAAATGCTAATCTAC
TCGTGAATGTCAAATTCATATTTTATTCCTCAGACAAATATTGGTACTTTTCAACCAATGGATTGCATGGCTTGG
GACAGGCAGAAATTATTATTCTATTGTTATGTTTGCCAAATGAAGATACTATTCCTAAGGACATCTTCAGACTAT

FIGURE 773B

TTATCACCATATATAAGGATGCTCTAAAAGGAAAATACATAGAAAACTTGGACAATATTACCTTTACTGAGAGTT
TTCTCAGTAGCAAGGATCACGGAGGATTCCTGTTTATTACACCTACTTTTCAGAAACTTGATGATCTCTCATTAC
CAAGTAATCCTTTTCTTTGTGGAATTCTTATCCAGAAGCTTGAGATTCCCTGGGCAAAGGTTTTTCCTATGCGTT
TAATGTTGAGATTGGGTGCAGAATATAAAGCATATCCTGCTCCTCTAACAAGCATCAGAGGCCGAAAACCTCTTT
TTGGAGAAATAGGACACACTATTATGAACTTACTTGTTGACCTTCGAAATTACCAGTATACCTTGCATAATATAG
ATCAACTGTTGATTCATATGGAAATGGGAAAAAGCTGCATAAAAATACCACGGAAAAAGTACAGTGATGTAATGA
AAGTACTAAATTCTTCCAATGAGCATGTCATTAGCATTGGAGCAAGTTTCAGTACAGAAGCAGATTCTCATCTAG
TCTGTATACAGAATGATGGAATTTATGAAACACAGGCCAACAGTGCCACTGGCCATCCTAGAAAAGTGACAGGTG
CAAGTTTTGTGGTATTCAATGGAGCTCTAAAAACATCTTCAGGATTTCTTGCTAAGTCCAGCATAGTTGAAGATG
GCTTAATGGTACAAATAACTCCAGAGACCATGAATGGCTTGCGGCTAGCTTTACGAGAACAGAAAGACTTTAAAA
TTACATGTGGGAAAGTTGATGCAGTAGACCTGAGAGAATACGTGGATATCTGCTGGGTAGATGCTGAAGAAAAG
GAAACAAAGGAGTTATCAGTTCAGTGGATGGAATATCATTACAAGGATTTCCAAGTGAAAAAATAAAACTGGAAG
CAGATTTTGAAACCGATGAGAAGATTGTAAAATGTACCGAGGTGTTCTACTTTCTAAAGGACCAGGATTTATCTA
TTTTATCAACTTCTTATCAGTTTGCAAAAGAAATAGCCATGGCTTGTAGTGCTGCGCTGTGCCCTCACCTGAAAA
CTCTAAAAAGTAATGGGATGAATAAAATTGGACTCAGAGTTTCCATTGACACTGATATGGTTGAATTTCAGGCAG
GATCTGAAGGCCAACTTCTGCCTCAGCATTATCTAAATGATCTTGATAGTGCTCTGATACCTGTGATCCATGGTG
GGACCTCCAACTCTAGTTTACCATTAGAAATAGAATTAGTGTTTTTCATTATAGAACATCTTTTT**TAG**TGAAAGA
ATGTGCCATATTACATATTGCAACCTAATTTGTTAAAACTAACTCCAGCACTAAAGCTGAAATGCCACAAACACT
AAAAGTATAAATATGTCTGATTTTTGAAACACATAAGCTTTGCTCTTTAGGCAGGAATGATCTTTTCAAATCATT
AGCACAATATTTAAATATCTAAAAATTTAAGAGATCCATACTTTCTGTAGCTTTACAATTAATTTAAGTACTAAA
AAGACAAGGATTTCTTTTAAGAAATTTATAGCATTTACTGTGTTATTTAAATGCTAAGCCAAAGTATCTGCACTT
AGGTATACCTCTTTATGCCAATAATGATTTTAATGAAGGCTCTTTTCAGATGTAACCTTATGAAGGAAATATCTG
CTTTGTGTATATGCCAGTTAGAATACTGGTTTCTAAAGTCTGTCAAATTGTATTTCAGTGGCACAAAAACCAGTT
TTGAGGTCTTAGACTTATAATTCTTTGAATAAAACTGATAACTTATTTGTATAATTGGAGTGGAGACCTACCTCC
ATAATTAGATAAACTCTTTTTGGATTATAATCAGAATTTTGCCTTTTTTCTTCTCAAATTATTACATATGTATGT
ATTATATATCCACATATATAGTTTTCCCTGATTAAATGGATATTAAAATAATTGCGGGTGCTTCAGGACTTTTTG
CTTCTATATTTAAGTATATTGTTTTTATAGCAAGAACATATTCTGAATGTTTTATAAATCTTTAATAATTTATAT
GTAGGTAATATTTTTGTATCACAATGCATTATTTTTTTTCCTCCTTTCCTTCCAAACTATACCACTGTATTTACC
ACTTCTAAGAGTGACTGACGACGGGCCAGATGACCCTTGAAGTAGTCATTATGTAGCAATAAATGAAGCCTGAAA
CAGGTTTTTTTACTTCCACTTTAATCCTTAGAAATTTCTTGGCAACTTCGCATATTTTCATTGACACTGGTGTAT
AAGTATAAATTTAAATGAACTAATTACTTTTGCATATTTTAAATTCTTTATATGGTAGTTATTTTTATAACAGG
ATATTAACATAAGTTAAATCCTATGTATTTGAAATTGTTACAGAGCTTTCCTCTTTACTTCAAACAGCAAAAAAG
TGGGGGGCATATTGTAGTCCTGTCATTTAAGTTATGTAAAAAATTTAATCATTATTTTGATGCTTTAAACATTCT
CATGTGTAATATATGTTTTTGTATCAAAAACACTCATATATTTCAAGAAAAGAAATTATGTTAAATAGCCCTGT
TTTAAGAAAATATTTATGAAGCATCTCAACTTGAAGATCAAGTCAAAGTTATAACTCAGGATCTGAGGTCTCAA
GCTAGGAGAGACTGAGAATTTTAATCAGTTTGGGCATATAGTTTGGACTGAATCACATCTGTAGTACTTAGCCAA
AGACAATTTGGAGGAGAATATCAGCCTTCTGGAAGTAGCTACTTCCTGAACAATGTAAAGTGTCGCAGATATTCA
ATAAAATGGCAACCTGTTATAATTTGTGAAATTTATTGAAATGGTGTAAGATGAAAACAATTGCATATCAAACCC
AATTTATGTTTTCTAAATATAGTGTATGTATTCTGCCATGTAAGTAATTGAACAGTCTTAAAATAACCAAATGGT
AGAGGGCTGTTCCATGATGGGACAGCTTTGGATTTGTTTTCATAAAATCTCTACATTCAATAAAAATTGGAATTA
TGTGCCTGAAGTTTGGAGGCACATTTTGAAGT

FIGURE 774

MDSYFKAAVSDLDKLLDDFEQNPDEQDYLQDVQNAYDSNHCSVSSELASSQRTSLLPKDQECVNSCASSETSYGT
NESSLNEKTLKGLTSIQNEKNVTGLDLLSSVDGGTSDEIQPLYMGRCSKPICDLISDMGNLVHATNSEEDIKKLL
PDDFKSNADSLIGLDLSSVSDTPCVSSTDHDSDTVREQQNDTSSELQNREIGGIKELGIKVDTTLSDSYNYSGTE
NLKDKKIFNQLESIVDFNMSSALTRQSSKMFHAKDKLQHKSQPCGLLKDVGLVKEEVDVAVITAAECLKEEGKTS
ALTCSLPKNEDLCLNDSNSRDENFKLPDFSFQEDKTVIKQSAQEDSKSLDLKDNDVIQDSSSALHVSSKDVPSSL
SCLPASGSMCGSLIESKARGDFLPQHEHKDNIQDAVTIHEEIQNSVVLGGEPFKENDLLKQEKCKSILLQSLIEG
MEDRKIDPDQTVIRAESLDGGDTSSTVVESQEGLSGTHVPESSDCCEGFINTFSSNDMDGQDLDYFNIDEGAKSG
PLISDAELDAFLTEQYLQTTNIKSFEENVNDSKSQMNQIDMKGLDDGNINNIYFNAEAGAIGESHGINIICETVD
KQNTIENGLSLGEKSTIPVQQGLPTSKSEITNQLSVSDINSQSVGGARPKQLFSLPSRTRSSKDLNKPDVPDTIE
SEPSTADTVVPITCAIDSTADPQVSFNSNYIDIESNSEGGSSFVTANEDSVPENTCKEGLVLGQKQPTWVPDSEA
PNCMNCQVKFTFTKRRHHCRACGKVFCGVCCNRKCKLQYLEKEARVCVVCYETISKAQAFERMMSPTGSNLKSNH
SDECTTVQPPQENQTSSIPSPATLPVSALKQPGVEGLCSKEQKRVWFADGILPNGEVADTTKLSSGSKRCSEDFS
PLSPDVPMTVNTVDHSHSTTVEKPNNETGDITRNEIIQSPISQVPSVEKLSMNTGNEGLPTSGSFTLDDDVFAET
EEPSSPTGVLVNSNLPIASISDYRLLCDINKYVCNKISLLPNDEDSLPPLLVASGEKGSVPVVEEHPSHEQIILL
LEGEGFHPVTFVLNANLLVNVKFIFYSSDKYWYFSTNGLHGLGQAEIIILLLCLPNEDTIPKDIFRLFITIYKDA
LKGKYIENLDNITFTESFLSSKDHGGFLFITPTFQKLDDLSLPSNPFLCGILIQKLEIPWAKVFPMRLMLRLGAE
YKAYPAPLTSIRGRKPLFGEIGHTIMNLLVDLRNYQYTLHNIDQLLIHMEMGKSCIKIPRKKYSDVMKVLNSSNE
HVISIGASFSTEADSHLVCIQNDGIYETQANSATGHPRKVTGASFVVFNGALKTSSGFLAKSSIVEDGLMVQITP
ETMNGLRLALREQKDFKITCGKVDAVDLREYVDICWVDAEEKGNKGVISSVDGISLQGFPSEKIKLEADFETDEK
IVKCTEVFYFLKDQDLSILSTSYQFAKEIAMACSAALCPHLKTLKSNGMNKIGLRVSIDTDMVEFQAGSEGQLLP
QHYLNDLDSALIPVIHGGTSNSSLPLEIELVFFIIEHLF

FIGURE 775

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GGCACGAGGGCGATGCGGGCGCCCCCGGCGGGCGGCCCCGGCGGGCACCATGAGCCCTCTGCTCCGCCGCCTGCT
GCTCGCCGCACTCCTGCAGCTGGCCCCCGCCCAGGCCCCTGTCTCCCAGCCTGATGCCCCTGGCCACCAGAGGAA
AGTGGTGTCATGGATAGATGTGTATACTCGCGCTACCTGCCAGCCCCGGGAGGTGGTGGTGCCCTTGACTGTGGA
GCTCATGGGCACCGTGGCCAAACAGCTGGTGCCCAGCTGCGTGACTGTGCAGCGCTGTGGTGGCTGCTGCCCTGA
CGATGGCCTGGAGTGTGTGCCCACTGGGCAGCACCAAGTCCGGATGCAGATCCTCATGATCCGGTACCCGAGCAG
TCAGCTGGGGGAGATGTCCCTGGAAGAACACAGCCAGTGTGAATGCAGACCTAAAAAAAAGGACAGTGCTGTGAA
GCCAGACAGGGCTGCCACTCCCCACCACCGTCCCCAGCCCCGTTCTGTTCCGGGCTGGGACTCTGCCCCCGGAGC
ACCCTCCCCAGCTGACATCACCCATCCCACTCCAGCCCCAGGCCCCTCTGCCCACGCTGCACCCAGCACCACCAG
CGCCCTGACCCCCGGACCTGCCGCTGCCGCTGCCGACGCCGCAGCTTCCTCCGTTGCCAAGGGCGGGGCTTAGAG
CTCAACCCAGACACCTGCAGGTGCCGGAAGCTGCGAAGGTGACACATGGCTTTTCAGACTCAGCAGGGTGACTTG
CCTCAGAGGCTATATCCCAGTGGGGGAACAAAGAGGAGCCTGGTAAAAAACAGCCAAGCCCCCAAGACCTCAGCC
CAGGCAGAAGCTGCTCTAGGACCTGGGCCTCTCAGAGGGCTCTTCTGCCATCCCTTGTCTCCCTGAGGCCATCAT
CAAACAGGACAGAGTTGGAAGAGGAGACTGGGAGGCAGCAAGAGGGGTCACATACCAGCTCAGGGGAGAATGGAG
TACTGTCTCAGTTTCTAACCACTCTGTGCAAGTAAGCATCTTACAACTGGCTCTTCCTCCCCTCACTAAGAAGAC
CCAAACCTCTGCATAATGGGATTTGGGCTTTGGTACAAGAACTGTGACCCCCAACCCTGATAAAAGAGATGGAAG
GAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 776

MSPLLRRLLLAALLQLAPAQAPVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVELMGTVAKQLVPSCVTV
QRCGGCCPDDGLECVPTGQHQVRMQILMIRYPSSQLGEMSLEEHSQCECRPKKKDSAVKPDRAATPHHRPQPRSV
PGWDSAPGAPSPADITHPTPAPGPSAHAAPSTTSALTPGPAAAAADAAASSVAKGGA

FIGURE 777

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GCAGCCCACTCTTCCCGAGAGGCCCCGACATCTCCCGGATAATCTGGAGCTTTCAAAATGTTTGCCAAAGCAACC
AGGAATTTTCTTAGAGAAGTTGATGCTGATGGTGACCTGATTGCAGTATCAAATCTGAATGACTCTGATAAGTTA
CAGCTTCTAAGTCTGGTGACAAAAAAGAAGAGATTCTGGTGCTGGCAGAGACCCAAGTACCAGTTTTTATCCCTC
ACCCTTGGCGATGTACTCATAGAAGACCAATTTCCGAGTCCAGTGGTCGTGGAGTCGGACTTTGTGAAATACGAG
GGCAAGTTTGCAAACCACGTGAGTGGAACCCTGGAGACTGCACTGGGGAAGGTCAAGCTGAACCTGGGGGGCAGC
AGCCGCGTAGAGAGCCAGTCTTCATTTGGAACCCTGAGGAAGCAGGAGGTGGATTTGCAGCAGCTCATCAGAGAC
TCTGCCGAGAGAACAATAAATCTGAGAAACCCTGTGCTCCAGCAGGTGCTGGAAGGAAGGAATGAGGTCCTGTGC
GTTTTGACACAGAAGATCACGACGATGCAGAAGTGTGTGATCTCTGAGCACATGCAGGTCGAGGAGAAGTGTGGT
GGCATCGTGGGCATCCAGACCAAGACGGTGCAGGTGTCAGCGACGGAGGATGGGAATGTCACCAAGGACTCCAAC
GTGGTGCTGGAGATCCCAGCTGCCACCACCATTGCCTACGGTGTCATTGAGTTATACGTGAAACTGGACGGCCAG
TTCGAGTTCTGCCTTCTCCGAGGGAAGCAAGGTGGCTTCGAGAACAAGAAGAGAATTGACTCTGTCTACCTGGAC
CCCCTGGTCTTTCGAGAGTTTGCATTCATAGACATGCCAGATGCTGCGCATGGGATATCTTCCCAGGATGGACCA
TTAAGTGTTTTAAAGCAAGCGACCCTGCTCCTGGAGAGGAATTTCCATCCATTTGCGGAGCTGCCTGAGCCACAA
CAGACAGCTTTGAGTGACATCTTCCAGGCGGTCCTATTTGATGATGAACTACTCATGGTCCTGGAACCAGTGTGC
GATGACCTGGTCAGCGGCCTCTCGCCCACAGTGGCGGTGCTGGGGGAGCTGAAGCCCCGGCAGCAGCAGGACCTT
GTGGCCTTCCTGCAGCTGGTGGGGTGCAGCTTACAGGGTGGGTGTCCGGGCCCCGAGGATGCAGGCAGCAAGCAG
CTGTTTATGACAGCCTACTTCTTGGTCAGTGCCCTCGCAGAAATGCCAGATAGCGCGGCAGCTCTGCTGGGCACT
TGCTGCAAACTCCAGATCATTCCCACACTGTGCCACTTGCTTCGTGCTCTGTCTGATGATGGAGTATCTGATCTT
GAAGACCCAACCTTGACTCCCCTGAAAGATACAGAAAGGTTTGGGATTGTGCAGCGCTTGTTTGCCTCAGCTGAC
ATTAGTCTGGAGAGACTGAAGTCATCTGTGAAAGCTGTCATTCTGAAGGACTCTAAAGTCTTCCCACTGCTTCTT
TGTATAACCCTGAATGGACTCTGTGCTTTAGGCAGAGAACATTCATGATGTCATATGTGAACTAGAAGTACGTGT
TACTGGCCAAGGCTATTTTTCAGAACTGTTAAAGGTCATATGCACGTTAAAAGTTGACCAATGAAATGAATTTAC
AGAACAGTTTAAGAAGTGGTGACATTTTGCATGATGAATGACCTGACTTTTAGCCACCAGGTACTCTTTAAACAG
TTTTCCTTATCAGAGGCCCTCCTGTGCTGGTGACCCAGCATCTGAGTTAGGTTCCAGCATGTAAAGAGCTGGGAG
GGCGGAGAATTCTTAGCATACATTCAGACGTTTTTTCTGCACAATAATAAGTCCATCTGTCACTTGCATTCCACT
TTTTGTTACATAGAAAGAGTCTGACCCTTTAATCCAAAGGTCTTTTTACATTGTGAATGCTGTGGGAAGGCAAT
TTCTCTGCACACAAGAGGCTACGTTTTGGAAGTGATGTATGTTATTTGATGACTGAAAATGAACTGTAAATGCTC
CTAGAGTATATTCCTCTGCTGAACAAAATTAAACTTCAAAAAAATCTAACAGTAACACACCCCTGCTTGGGACCC
TAGCTATATGCATTTTATGTGACCTTGCCATGCTTCAGTGAACATACTAATTCTATGTCTAGCACATGTTGATTT
CCTATGTATTCTGGGTATTCTATTAAAGGAAACTTTGAACTATTAAAAAAAAAAA
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FIGURE 778

MFAKATRNFLREVDADGDLIAVSNLNDSDKLQLLSLVTKKKRFWCWQRPKYQFLSLTLGDVLIEDQFPSPVVVES
DFVKYEGKFANHVSGTLETALGKVKLNLGGSSRVESQSSFGTLRKQEVDLQQLIRDSAERTINLRNPVLQQVLEG
RNEVLCVLTQKITTMQKCVISEHMQVEEKCGGIVGIQTKTVQVSATEDGNVTKDSNVVLEIPAATTIAYGVIELY
VKLDGQFEFCLLRGKQGGFENKKRIDSVYLDPLVFREFAFIDMPDAAHGISSQDGPLSVLKQATLLLERNFHPFA
ELPEPQQTALSDIFQAVLFDDELLMVLEPVCDDLVSGLSPTVAVLGELKPRQQQDLVAFLQLVGCSLQGGCPGPE
DAGSKQLFMTAYFLVSALAEMPDSAAALLGTCCKLQIIPTLCHLLRALSDDGVSDLEDPTLTPLKDTERFGIVQR
LFASADISLERLKSSVKAVILKDSKVFPLLLCITLNGLCALGREHS

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FIGURE 779

GAAGGAGGCCCAGACAGTGAGGGCAGGAGGGAGAGAAGAGACGCAGAAGGAGAGCGAGCGAGAGAGAAAGGGTTC
TGGATTGGAGGGGAGAGCAAGGGAGGGAGGAAGGCGGTGAGAGAGGCGGGGGCCTCGGGAGGGTGAAAGGAGGGA
GGAGAAGGGCGGGGCACGGAGGCCCGAGCGAGGGACAAGACTCCGACTCCAGCTCTGACTTTTTTCGCGGCTCTC
GGCTTCCACTGCAGCC**ATG**TCACTCCTCTTGCTGGTGGTCTCAGCCCTTCACATCCTCATTCTTATACTGCTTTT
CGTGGCCACTTTGGACAAGTCCTGGTGGACTCTCCCTGGGAAAGAGTCCCTGAATCTCTGGTACGACTGCACGTG
GAACAACGACACCAAAACATGGGCCTGCAGTAATGTCAGCGAGAATGGCTGGCTGAAGGCGGTGCAGGTCCTCAT
GGTGCTCTCCCTCATTCTCTGCTGTCTCTCCTTCATCCTGTTCATGTTCCAGCTCTACACCATGCGACGAGGAGG
TCTCTTCTATGCCACCGGCCTCTGCCAGCTTTGCACCAGCGTGGCGGTGTTTACTGGCGCCTTGATCTATGCCAT
TCACGCCGAGGAGATCCTGGAGAAGCACCCGCGAGGGGGCAGCTTCGGATACTGCTTCGCCCTGGCCTGGGTGGC
CTTCCCCCTCGCCCTGGTCAGCGGCATCATCTACATCCACCTACGGAAGCGGGAG**TGA**GCGCCCCGCCTCGCTCG
GCTGCCCCCGCCCCTTCCCGGCCCCCCTCGCCGCGCGTCCTCCAAAAAAATAAAACTTTAACGGCGG

FIGURE 780

MSLLLLVVSALHILILILLFVATLDKSWWTLPGKESLNLWYDCTWNNDTKTWACSNVSENGWLKAVQVLMVLSLI
LCCLSFILFMFQLYTMRRGGLFYATGLCQLCTSVAVFTGALIYAIHAEEILEKHPRGGSFGYCFALAWVAFPLAL
VSGIIYIHLRKRE

FIGURE 781

GGCTCTGGGCATCACCAGCGGCCCCAGGGAAAAAGAAAGAA**ATG**GGAAACAGCATGAAATCCACCCCTGCGCCTG
CCGAGAGGCCCCTGCCCAACCCGGAGGGACTGGATAGCGACTTCCTTGCCGTGCTAAGTGACTACCGTCTCCTG
ACATCAGCCCCCGATATTCCGCCGAGGGGAGAAACTGCGTGTGATTTCTGATGAAGGGGGCTGGTGGAAAGCTA
TTTCTCTTAGCACTGGTCGAGAGAGTTACATCCCTGGAATATGTGTGGCCAGAGTTTACCATGGCTGGCTGTTTG
AGGGCCTGGGCAGAGACAAGGCCGAGGAGCTGCTGCAGCTGCCAGACACAAAGGTCGGCTCCTTCATGATCAGAG
AGAGTGAGACCAAGAAAGGGTTTTACTCACTGTCGGTGAGACACAGGCAGGTAAAGCATTACCGCATTTTCCGTC
TGCCGAACAACTGGTACTACATTTCCCCGAGGCTCACCTTCCAGTGCCTGGAGGACCTGGTGAACCACTATTCTG
AGGTGGCTGATGGCCTGTGCTGTGTGCTCACCACGCCCTGCCTGACACAAAGCACGGCTGCCCCAGCAGTGAGGG
CCTCCAGCTCACCTGTCACCTTGCGTCAGAAGACTGTGGACTGGAGGAGAGTGTCCAGACTGCAGGAGGACCCCG
AGGGAACAGAGAACCCGCTTGGGGTAGACGAGTCCCTTTTCAGCTATGGCCTTCGAGAGAGCATTGCCTCTTACC
TGTCCCTGACCAGTGAGGACAACACCTCCTTTGATCGAAAGAAGAAAAGCATCTCCCTGATGTATGGTGGCAGCA
AGAGAAAGAGCTCATTCTTCTCATCACCACCTTACTTTGAGGAC**TAG**CCAAGAACAGACACAATGGTTCATGCCC
AAAAGGAACAGAAGTTCCAACTATTGCCTGGGATCTTGCGAAAAGCGAGGTTCCCTGATCCCTGGGAGCCTCACG
TATTTTAGAAGCCAAGAGAAGCCACATGGAGACTCAAATTCGCATCTTCTCTATCCACATCATGACCAAAGGAAC
CCCTCCCTGGTGTCTGATCAGGGCTGTGGCATCACAAAACATTGGATCATGACATGTCGGGCGATGCTTGGAAAA
GCCCAGCATGTATGTATGCACACATTGTGTGTGTGGGAAGGACAAAGCCACTCTCACAAGAAAGGGCACCAGGAC
TGCTCTCCAAGGAACTGGACCTGTCCAGACAGTTACACTCCAAGGTCATTGGAGAGAACTTCTGTATGGGCAAGC
CTGAGAGGGAGAGGAAACAAAGCTGTGTCCTGGCAGAAGGTCTGGGTTTGCAGATGGGTGCCCTGAATGGAACT
ACTTTAACTAATCCATAGGGACTTCTGGTATGCTTTCCTCTCTTTTTAAAGGAACTTCGTGACACTAAACATTAG
CCCAAAGGACTTCTTAGCCTTCAATTGGGAGATACCTTTGGTCTGCTCCTGCACCAAAGCCATATGGGTGGAAGT
CAGTTGGCCTCCCTGGTTCTGCAGAGGGCCAGAAGAATGAGAGAGAGGAAGACTGCTGGCAGGGAAATCGAGGAG
GCGAGACTAGAACTGCACCAGCTTCCCTGATGTCTGCAGCCATGGCTTTGCAGCGCAAACAGAACTTCTCTGGGA
TGCTGGGATTCTTGCCTGTATGAATGCATCAAGTATTCATTTATTGCCCGAATAGGCATTGCATTAAGTCCTCTG
TTAGGTGTCAGGCAAGCCAAAAAAAAAAAAAAGATGCTAAGTCCTAACCCCCAACAGAAGTGTTCACAGTGTAGA
CGGGAAAAAATGTATAAACAAATGTGTAAAAGAGAAATCAGCTCATGGCTTAGGATGGAATTAGAGACAGGTGA
GGGACACTCAGGAGCTCATTTTCCAGCTGCTCTTCAGAGTGGAAGGGCTGGCTGGATCGGGTAGGTAAGAATAGC
TGGATTTTTTAGAAAGAAATGGATACAGTCTAAAGAATTAACTCACCCGGTACTTTATTCTAAGAAGGGTCTGG
CATCCATATGAGGAAAAATGCTCAGCTCCAGGAAAGATGGGGAGTCCAAGTGGATTAATGATGTCATGCATAATT
TTAAGAGACAAGGGAGAAAACACAATGTATAGCCAGAGAAGGAGAAGCTCCCATCCAAATCCTACTAGGAAGAGA
GTGGGCTGCAGATGAATCTGTGACTCATGTTTCCCTGTTTCAAAGGGATCCTGGGGAAGGAGGGGAACATGCTTG
CAGTATCTCTCCCTGTCTGTCTGCTCACATAAGCATTCCGTCCATCTAAGCTCATCGTGCTACTGGTATGTGTAT
GTGCAGTTACACAGTTTCCTGTATCATAAATCCTAGTGTGTTATACAAGGAGACATCTGTGGTTTCCCCAACCG
TTCCAAAAGGCTATTTCAAAGGAACCAGCCCACGTATGAGAAATGAATGTAACACTGTGGACATTGACTTCCCGC
ATAAGGCAGGGTGACCCCCTGAACTCCAGATGTTTGCACAGTATCTTATGTGTTGTTTTCCGTTGTGACGAATGT
GATTGGAACATTTGGGGAGCACCCAGAGGGATTTTTCAGTGGGAAGCATTACACTTTGCTAAATCATGTATTTAT
TCCTGATTAAAACAAACCTAATAAATATTTAACCCTTGGC

FIGURE 782

MGNSMKSTPAPAERPLPNPEGLDSDFLAVLSDYPSPDISPPIFRRGEKLRVISDEGGWWKAISLSTGRESYIPGI
CVARVYHGWLFEGLGRDKAEELLQLPDTKVGSFMIRESETKKGFYSLSVRHRQVKHYRIFRLPNNWYYISPRLTF
QCLEDLVNHYSEVADGLCCVLTTPCLTQSTAAPAVRASSSPVTLRQKTVDWRRVSRLQEDPEGTENPLGVDESLF
SYGLRESIASYLSLTSEDNTSFDRKKKSISLMYGGSKRKSSFFSSPPYFED

FIGURE 783

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GGCCAGGAACGCACGCTGCCTGGCCGTATCGCCGCCCCCACCGACGCCGCCGCCGGGACTAGAAGTGAGCCGCCC
GGGTCCCAAACGCCAGCCAGCCAGTCAGTGGGTCCCGCAGTCGCCCGCAACCGGGGCGAATCATGGCGGCCGCCA
AGGTGGCTTTAACCAAGAGAGCAGATCCAGCTGAGCTTAGAACAATATTTTTGAAGTATGCAAGCATTGAGAAAA
ACGGTGAATTTTTCATGTCCCCCAATGACTTTGTCACTCGATACTTGAACATTTTTGGAGAAAGCCAGCCTAATC
CAAAGACTGTGGAACTTTTAAGTGGAGTGGTGGATCAGACCAAAGATGGATTAATATCTTTTCAAGAATTTGTTG
CCTTTGAATCTGTCCTGTGTGCCCCTGATGCTTTGTTTATGGTAGCCTTTCAGCTGTTTGACAAAGCTGGCAAAG
GAGAAGTAACTTTTGAGGATGTTAAGCAAGTTTTTGGACAGACCACAATTCATCAACATATTCCATTTAACTGGG
ATTCAGAATTTGTGCAACTACATTTTGGAAAAGAAAGAAAAAGACACCTGACATATGCGGAATTTACTCAGTTTT
TATTGGAAATACAACTGGAGCACGCAAAGCAAGCCTTTGTGCAACGGGACAATGCTAGGACTGGGAGAGTCACAG
CCATCGACTTCCGAGACATCATGGTCACCATCCGCCCCCATGTCTTGACTCCTTTTGTAGAAGAATGTCTAGTAG
CTGCTGCTGGAGGTACCACATCCCATCAAGTTAGTTTCTCCTATTTTAATGGATTTAATTCGCTCCTTAACAACA
TGGAACTCATTAGAAAGATCTATAGCACTCTGGCTGGCACCAGGAAAGATGTTGAAGTGACTAAGGAGGAGTTTG
TTCTGGCAGCTCAGAAATTTGGTCAGGTTACACCCATGGAAGTTGACATCTTGTTTCAGTTAGCAGATTATATG
AGCCAAGGGGACGTATGACCTTAGCAGACATTGAACGGATTGCTCCTCTGGAAGAGGGAACTCTGCCCTTTAACT
TGGCTGAGGCCCAGAGGCAGAAGGCCTCAGGTGATTCAGCTCGACCAGTTCTTCTACAAGTTGCAGAGTCGGCCT
ACAGGTTTGGTCTGGGTTCTGTTGCTGGAGCTGTTGGAGCCACTGCTGTGTATCCTATCGATCTTGTAAAAACTC
GAATGCAGAACCAACGATCAACTGGCTCTTTTGTGGGAGAACTCATGTATAAAAACAGCTTTGACTGTTTTAAGA
AAGTGCTACGCTATGAAGGCTTCTTTGGACTGTATAGAGGTCTGTTGCCACAGTTATTGGGAGTTGCCCCAGAGA
AGGCCATAAAACTTACAGTGAACGATTTTGTGAGGGATAAATTTATGCACAAAGATGGTTCGGTCCCACTTGCAG
CAGAAATTCTTGCTGGAGGCTGCGCTGGAGGCTCCCAGGTGATTTTCACAAATCCTTTAGAAATCGTCAAGATCC
GTTTGCAAGTGGCAGGAGAAATCACCCACTGGTCCTCGAGTCAGTGCTCTGTCTGTCGTGCGGGACCTGGGGTTTT
TTGGGATCTACAAGGGTGCCAAAGCATGCTTTCTGCGGGACATTCCTTTCTCGGCCATCTACTTTCCGTGCTATG
CTCATGTGAAGGCTTCCTTTGCAAATGAAGATGGGCAGGTTAGCCCAGGAAGCCTGCTCTTAGCTGGTGCCATAG
CTGGTATGCCTGCAGCATCTTTAGTGACCCCTGCTGATGTTATCAAGACGAGATTACAGGTGGCTGCCCGGGCTG
GCCAAACCACTTACAGCGGAGTGATAGACTGCTTTAGAAAGATACTGCGTGAAGAAGGACCAAAAGCTCTGTGGA
AGGGAGCTGGTGCTCGTGTATTTCGATCCTCACCCCAGTTTGGTGTAACTTTGCTGACTTACGAATTGCTACAGC
GATGGTTCTACATTGATTTTGGAGGAGTAAAACCCATGGGATCAGAGCCAGTTCCTAAATCCAGGATCAACCTGC
CTGCCCCGAATCCTGATCACGTTGGGGGCTACAAACTGGCAGTTGCTACATTTGCAGGGATTGAAAACAAATTTG
GACTTTACCTACCTCTCTTCAAGCCATCAGTATCTACCTCAAAGGCTATTGGTGGAGGCCCATAGGAAGATCAGC
CCTGGGATAGTGCTGTCTTTTTGTGGGTACTGCAGTAAAGAACATCCCTCCTGGGAATGAAGCAATGCTTCATCC
CTTTTACGTCCATCTCTTGTTTAAATTCAAGTCCAGGCTTTTTTATCATGTGAAATCATTCATTTTCTGGGTGTT
TTCTTAACCAGATCATTGTGAAATTATTCATAATTATTATTTGGCCCTCTGCCCAGAAACCTTTGTTTGCATCTG
AAAATTGATGGGATTTGGTCAACACTAACATGATTTGGGGAAAGGAGCAAGTCAGAATAGAAATTAGTACTCCCC
TCCTTGAACTAGGATTGTAGTCCCAAAGAGGCTACTGTAAGGCAATCATGGTGCTCAGAGCAGTGTTTCGTGTGT
GTTTTAAACTGGTAGGAAACTAGGTGCATATTTATAAAAATAAAAACACTGGGAGAAATGAAAAAATATATC
AAATATATTCAGCCTGGCTTCAAATTGTAAGCATGCACAAATTCTGTCTCTGGATTATATTATGAAGCTTTATG
TGAAACATGTTTCTTTGTAATGAAAACCACATTGGAGATGTTTAGTAATCATATTGTTACTGGTACCAAGACTAC
TAGGGAAATGCCTTTGTACTTTAGGGAAGTACTTTTGGCATTTTACTGTACAGACAGAAAAACTGAGATGTAGC
CCCTCTCCTGGAAGTGCTAATTTTGAAAAACTGCTCATATGATGTACATGACTGATTACTGCCTATTTAATAA
ACACTCTTGAAAAATGCATGTTGCCCTGTTGCTGCCTGCCCTATTCTCCTCATCTCCCCATCATTGGTACCCACT
TGCTTTTAAAATCCACTTTATCTTGAATAATGTAAGACAAATATGTTCTGACATAAGTATTTAATTCATGTTGCC
TTGCATAATGGTCAGAGGCGCATGAATTTGTGAAGGTGGAAATAAACTATTTGTAAAGTGAAAAAAAAAAAAAAA
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FIGURE 784

MAAAKVALTKRADPAELRTIFLKYASIEKNGEFFMSPNDFVTRYLNIFGESQPNPKTVELLSGVVDQTKDGLISF
QEFVAFESVLCAPDALFMVAFQLFDKAGKGEVTFEDVKQVFGQTTIHQHIPFNWDSEFVQLHFGKERKRHLTYAE
FTQFLLEIQLEHAKQAFVQRDNARTGRVTAIDFRDIMVTIRPHVLTPFVEECLVAAAGGTTSHQVSFSYFNGFNS
LLNNMELIRKIYSTLAGTRKDVEVTKEEFVLAAQKFGQVTPMEVDILFQLADLYEPRGRMTLADIERIAPLEEGT
LPFNLAEAQRQKASGDSARPVLLQVAESAYRFGLGSVAGAVGATAVYPIDLVKTRMQNQRSTGSFVGELMYKNSF
DCFKKVLRYEGFFGLYRGLLPQLLGVAPEKAIKLTVNDFVRDKFMHKDGSVPLAAEILAGGCAGGSQVIFTNPLE
IVKIRLQVAGEITTGPRVSALSVVRDLGFFGIYKGAKACFLRDIPFSAIYFPCYAHVKASFANEDGQVSPGSLLL
AGAIAGMPAASLVTPADVIKTRLQVAARAGQTTYSGVIDCFRKILREEGPKALWKGAGARVFRSSPQFGVTLLTY
ELLQRWFYIDFGGVKPMGSEPVPKSRINLPAPNPDHVGGYKLAVATFAGIENKFGLYLPLFKPSVSTSKAIGGGP

FIGURE 785A

GGACTGCGAAAGGAGCAGGGGTTGCGGAGCTAGGGCTCCAGCCTGCGGCCGCGCATTCTTGCGTCTGGCCAGCCGC
GAGCTCTAAGGGTCGGCCCCGCCCGGTCCGCCCCCGCGGCTCCCTGCCAGGCTCTCGCGGGCGCGCTCGGGGTGG
GGCCTCGCGGCTGGCGGAGATGCGGCCGGGGCTGCGCGGTGGTGATGCGAGCCTGCTGGGCGGCGCGCCGGGGCA
GCCGGAGCCGCGCGCCGCGGCGCTGTAATCGGACACCAAGAGCGCTCGCCCCCGGCCTCCGGCCACTTTCCATTC
ACTCCGAGGTGCTTGATTGAGCGACGCGGAGAAGAGCTCCGGGTGCCGCGGCACTGCAGCGCTGAGATTCCTTTA
CAAAGAAACTCAGAGGACCGGGAAGAAAGAATTTCACCTTTGCGACGTGCTAGAAAATAAGGTCGTCTGGGAAAA
GGACTGGAGACACAAGCGCATCCAACCCCGGTAGCAAACTGATGACTTTTCCGTGCTGATTTCTTTCAACCTCGG
TATTTTCCCTTGGATATTAACTTGCATATCTGAAGAA**ATG**GCATTCCGGACAATTTGCGTGTTGGTTGGAGTATT
TATTTGTTCTATCTGTGTGAAAGGATCTTCCCAGCCCCAAGCAAGAGTTTATTTAACATTTGATGAACTTCGAGA
AACCAAGACCTCTGAATACTTCAGCCTTTCCCACCATCCTTTAGACTACAGGATTTTATTAATGGATGAAGATCA
GGACCGGATATATGTGGGAAGCAAAGATCACATTCTTTCCCTGAATATTAACAATATAAGTCAAGAAGCTTTGAG
TGTTTTCTGGCCAGCATCTACAATCAAAGTTGAAGAATGCAAAATGGCTGGCAAAGATCCCACACACGGCTGTGG
GAACTTTGTCCGTGTAATTCAGACTTTCAATCGCACACATTTGTATGTCTGTGGGAGTGGCGCTTTCAGTCCTGT
CTGTACTTACTTGAACAGAGGGAGGAGATCAGAGGACCAAGTTTTCATGATTGACTCCAAGTGTGAATCTGGAAA
AGGACGCTGCTCTTTCAACCCCAACGTGAACACGGTGTCTGTTATGATCAATGAGGAGCTTTTCTCTGGAATGTA
TATAGATTTCATGGGGACAGATGCTGCTATTTTTCGAAGTTTAACCAAGAGGAATGCGGTCAGAACTGATCAACA
TAATTCCAAATGGCTAAGTGAACCTATGTTTGTAGATGCACATGTCATCCCAGATGGTACTGATCCAAATGATGC
TAAGGTGTACTTCTTCTTCAAAGAAAAACTGACTGACAATAACAGGAGCACGAAACAGATTCATTCCATGATTGC
TCGAATATGTCCTAATGACACTGGTGGACTGCGTAGCCTTGTCAACAAGTGGACCACTTTCTTAAAGGCGAGGCT
GGTGTGCTCGGTAACAGATGAAGACGGCCCAGAAACACACTTTGATGAATTAGAGGATGTGTTTCTGCTGGAAAC
TGATAACCCGAGGACAACACTAGTGTATGGCATTTTTACAACATCAAGCTCAGTTTTCAAAGGATCAGCCGTGTG
TGTGTATCATTTATCTGATATACAGACTGTGTTTAATGGGCCTTTTGCCCACAAAGAAGGGCCCAATCATCAGCT
GATTTCCTATCAGGGCAGAATTCCATATCCTCGCCCTGGAACTTGTCCAGGAGGAGCATTTACACCCAATATGCG
AACCACCAAGGAGTTCCCAGATGATGTTGTCACTTTTATTCGGAACCATCCTCTCATGTACAATTCCATCTACCC
AATCCACAAAAGGCCTTTGATTGTTCGTATTGGCACTGACTACAAGTACACAAAGATAGCTGTGGATCGAGTGAA
CGCTGCTGATGGGAGATACCATGTCCTGTTTCTCGGAACAGATCGGGGTACTGTGCAAAAAGTGGTTGTTCTTCC
TACTAACAACTCTGTCAGTGGCGAGCTCATTCTGGAGGAGCTGGAAGTCTTTAAGAATCATGCTCCTATAACAAC
AATGAAAATTTCATCTAAAAAGCAACAGTTGTATGTGAGTTCCAATGAAGGGGTTTCCCAAGTATCTCTGCACCG
CTGCCACATCTATGGTACAGCCTGTGCTGACTGCTGCCTGGCGCGGGACCCTTATTGCGCCTGGGATGGCCATTC
CTGTTCCAGATTCTACCCAACTGGGAAACGGAGGAGCCGAAGACAAGATGTGAGACATGGAAACCCACTGACTCA
ATGCAGAGGATTTAATCTAAAAGCATACAGAAATGCAGCTGAAATTGTGCAGTATGGAGTAAAAAATAACACCAC
TTTTCTGGAGTGTGCCCCCAAGTCTCCGCAGGCATCTATCAAGTGGCTGTTACAGAAAGACAAAGACAGGAGGAA
AGAGGTTAAGCTGAATGAACGAATAATAGCCACTTCACAGGGACTCCTGATCCGCTCTGTTCAGGGTTCTGACCA
AGGACTTTATCACTGCATTGCTACAGAAAATAGTTTCAAGCAGACCATAGCCAAGATCAACTTCAAAGTTTTAGA
TTCAGAAATGGTGGCTGTTGTGACGGACAAATGGTCCCCGTGGACCTGGGCCAGCTCTGTGAGGGCTTTACCCTT
CCACCCGAAGGACATCATGGGGGCATTCAGCCACTCAGAAATGCAGATGATTAACCAATACTGCAAAGACACTCG
GCAGCAACATCAGCAGGGAGATGAATCACAGAAAATGAGAGGGGACTATGGCAAGTTAAAGGCCCTCATCAATAG
TCGGAAAAGTAGAAACAGGAGGAATCAGTTGCCAGAGTCA**TAA**TATTTTCTTATGTGGGTCTTATGCTTCCATTA
ACAAATGCTCTGTCTTCAATGATCAAATTTTGAGCAAAGAAACTTGTGCTTTACCAAGGGGAATTACTGAAAAAG
GTGATTACTCCTGAAGTGAGTTTTACACGAACTGAAATGAGCATGCATTTTCTTGTATGATAGTGACTAGCACTA
GACATGTCATGGTCCTCATGGTGCATATAAATATATTTAACTTAACCCAGATTTTATTTATATCTTTATTCACCT
TTTCTTCAAAATCGATATGGTGGCTGCAAAACTAGAATTGTTGCATCCCTCAATTGAATGAGGGCCATATCCCTG
TGGTATTCCTTTCCTGCTTTGGGGCTTTAGAATTCTAATTGTCAGTGATTTTGTATATGAAACAAGTTCCAAAT
CCACAGCTTTTACGTAGTAAAAGTCATAAATGCATATGACAGAATGGCTATCAAAAGAAATAGAAAAGGAAGACG
GCATTTAAAGTTGTATAAAAACACGAGTTATTCATAAAGAGAAATGATGAGTTTTTATGGTTCCAATGAAATAT
CTTCCCCTTTTTTTAAGATTGTAAAAATAATCAGTTACTGGTATCTGTCACTGACCTTTGTTTCCTTATTCAGGA
AGATAAAAATCAGTAACCTACCCCATGAAGATATTTGGTGGGAGTTATATCAGTGAAGCAGTTTGGTTTATATTC
TTATGTTATCACCTTCCAAACAAAAGCACTTACTTTTTTTGGAAGTTATTTAATTTATTTTAGACTCAAAGAATA

FIGURE 785B

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TAATCTTGCACTACTCAGTTATTACTGTTTGTTCTCTTATTCCCTAGTCTGTGTGGCAAATTAAACAATATAAGA
AGGAAAAATTTGAAGTATTAGACTTCTAAATAAGGGGTGAAATCATCAGAAAGAAAAATCAAAGTAGAAACTACT
AATTTTTTAAGAGGAATTTATAACAAATATGGCTAGTTTTCAACTTCAGTACTCAAATTCAATGATTCTTCCTTT
TATTAAAACCAGTCTCAGATATCATACTGATTTTTAAGTCAACACTATATATTTTATGATCTTTTCAGTGTGATG
GCAAGGTGCTTGTTATGTCTAGAAAGTAAGAAACAATATGAGGAGACATTCTGTCTTTCAAAAGGTAATGGTAC
ATACGTTCACTGGTCTCTAAGTGTAAAAGTAGTAAATTTTGTGATGAATAAAATAATTATCTCCTAATTGTATGT
TAGAATAATTTTATTAGAATAATTTCATACTGAAATTATTTTCTCCAAATAAAAATTAGATGGAAAAATGTGAAA
AAAATTATTCATGCTCTCATATATATTTTAAAAACACTACTTTTGCTTTTTTATTTACCTTTTAAGACATTTTCA
TGCTTCCAGGTAAAAACAGATATTGTACCATGTACCTAATCCAAATATCATATAAACATTTTATTTATAGTTAAT
AATCTATGATGAAGGTAATTAAAGTAGATTATGGCCTTTTTAAGTATTGCAGTCTAAAACTTCAAAAACTAAAAT
CATTGTCAAAATTAATATGATTATTAATCAGAATATCAGATATGATTCACTATTTAAACTATGATAAATTATGAT
AATATATGAGGAGGCCTCGCTATAGCAAAAATAGTTAAAATGCTGACATAACACCAAACTTCATTTTTTAAAAAA
TCTGTTGTTCCAAATGTGTATAATTTTAAAGTAATTTCTAAAGCAGTTTATTATAATGGTTTGCCTGCTTAAAAG
GTATAATTAAACTTCTTTTCTCTTCTACATTGACACACAGAAATGTGTCAATGTAAAGCCAAACCATCTTCTGT
GTTTATGGCCAATCTATTCTCAAAGTTAAAAGTAAAATTGTTTCAGAGTCACAGTTCCCTTTATTTCACATAAGC
CCAAACTGATAGACAGTAACGGTGTTTAGTTTTATACTATATTTGTGCTATTTAATTCTTTCTATTTTCACAATT
ATTAAATTGTGTACACTTTCATTACTTTTAAAAATGTAGAAATTCTTCATGAACATAACTCTGCTGAATGTAAAA
GAAAATTTTTTTTCAAAAATGCTGTTAATGTATACTACTGGTGGTTGATTGGTTTTATTTATGTAGCTTGACAA
TTCAGTGACTTAATATCTATTCCATTTGTATTGTACATAAAATTTTCTAGAAATACACTTTTTTCCAAAGTGTAA
GTTTGTGAATAGATTTTAGCATGATGAAACTGTCATAATGGTGAATGTTCAATCTGTGTAAGAAAACAAACTAAA
TGTAGTTGTCACACTAAAATTTAATTGGATATTGATGAAATCATTGGCCTGGCAAAATAAAACATGTTGAATTCC
CC
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FIGURE 786

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MAFRTICVLVGVFICSICVKGSSQPQARVYLTFDELRETKTSEYFSLSHHPLDYRILLMDEDQDRIYVGSKDHIL
SLNINNISQEALSVFWPASTIKVEECKMAGKDPTHGCGNFVRVIQTFNRTHLYVCGSGAFSPVCTYLNRGRRSED
QVFMIDSKCESGKGRCSFNPNVNTVSVMINEELFSGMYIDFMGTDAAIFRSLTKRNAVRTDQHNSKWLSEPMFVD
AHVIPDGTDPNDAKVYFFFKEKLTDNNRSTKQIHSMIARICPNDTGGLRSLVNKWTTFLKARLVCSVTDEDGPET
HFDELEDVFLLETDNPRTTLVYGIFTTSSSVFKGSAVCVYHLSDIQTVFNGPFAHKEGPNHQLISYQGRIPYPRP
GTCPGGAFTPNMRTTKEFPDDVVTFIRNHPLMYNSIYPIHKRPLIVRIGTDYKYTKIAVDRVNAADGRYHVLFLG
TDRGTVQKVVVLPTNNSVSGELILEELEVFKNHAPITTMKISSKKQQLYVSSNEGVSQVSLHRCHIYGTACADCC
LARDPYCAWDGHSCSRFYPTGKRRSRRQDVRHGNPLTQCRGFNLKAYRNAAEIVQYGVKNNTTFLECAPKSPQAS
IKWLLQKDKDRRKEVKLNERIIATSQGLLIRSVQGSDQGLYHCIATENSFKQTIAKINFKVLDSEMVAVVTDKWS
PWTWASSVRALPFHPKDIMGAFSHSEMQMINQYCKDTRQQHQQGDESQKMRGDYGKLKALINSRKSRNRRNQLPE
S
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FIGURE 787

GACGGCCGCCGGAGCCGCGAGGCCAACTGTCGCCTGGTTGGGCCCGGAAATGGGACGTCGCGCTTTCTCAGGGAG
CGTAGAAGCAGCCAGGGCCTCTCCAAGCCGCTGCTGTGACAGAAAGTGAGTGAGCTGCCGGAGG**ATG**TCCACCGC
CACGACAGTCGCCCCCGCGGGGATCCCGGCGACCCCGGGCCCTGTGAACCCACCCCCCCCGGAGGTCTCCAACCC
CAGCAAGCCCGGCCGCAAGACCAACCAGCTGCAGTACATGCAGAATGTGGTGGTGAAGACGCTCTGGAAACACCA
GTTCGCCTGGCCCTTCTACCAGCCCGTGGACGCAATCAAATTGAACCTGCCGGATTATCATAAAATAATTAAAAA
CCCAATGGATATGGGGACTATTAAGAAGAGACTAGAAAATAATTATTATTGGAGTGCAAGCGAATGTATGCAGGA
CTTCAACACCATGTTTACAAATTGTTACATTTATAACAAGCCCACAGATGACATAGTGCTAATGGCCCAAGCTTT
AGAGAAAATTTTTCTACAAAAAGTGGCCCAGATGCCCCAAGAGGAAGTTGAATTATTACCCCCTGCTCCAAAGGG
CAAAGGTCGGAAGCCGGCTGCGGGAGCCCAGAGCGCAGGTACACAGCAAGTGGCGGCCGTGTCCTCTGTCTCCCC
AGCGACCCCCTTTCAGAGCGTGCCCCCCACCGTCTCCCAGACGCCCGTCATCGCTGCCACCCCTGTACCAACCAT
CACTGCAAACGTCACGTCGGTCCCAGTCCCCCCAGCTGCCGCCCCACCTCCTCCTGCCACACCCATCGTCCCCGT
GGTCCCTCCTACGCCGCCTGTCGTCAAGAAAAAGGGCGTGAAGCGGAAAGCAGACACAACCACTCCCACGACGTC
GGCCATCACTGCCAGCCGGAGTGAGTCGCCCCCGCCGTTGTCAGACCCCAAGCAGGCCAAAGTGGTGGCCCGGCG
GGAGAGTGGTGGCCGCCCCATCAAGCCTCCCAAGAAGGACCTGGAGGACGGCGAGGTGCCCCAGCACGCAGGCAA
GAAGGGCAAGCTGTCGGAGCACCTGCGCTACTGCGACAGCATCCTCAGGGAGATGCTATCCAAGAAGCACGCGGC
CTACGCCTGGCCCTTCTACAAGCCAGTGGATGCCGAGGCCCTGGAGCTGCACGACTACCACGACATCATCAAGCA
CCCGATGGACCTCAGCACCGTGAAAAGGAAGATGGATGGCCGAGAGTACCCAGACGCACAGGGCTTTGCTGCTGA
TGTCCGGCTGATGTTCTCGAATTGCTACAAATACAATCCCCCAGACCACGAGGTTGTGGCCATGGCCCGGAAGCT
CCAGGACGTGTTTGAGATGAGGTTTGCCAAGATGCCAGATGAGCCCGTGGAGGCACCGGCGCTGCCTGCCCCCGC
GGCCCCCATGGTGAGCAAGGGCGCTGAGAGCAGCCGTAGCAGTGAGGAGAGCTCTTCGGACTCAGGCAGCTCGGA
CTCGGAGGAGGAGCGGGCCACCAGGCTGGCGGAGCTGCAGGAGCAGCTGAAGGCCGTGCACGAGCAGCTGGCCGC
CCTGTCTCAGGCCCCAGTAAACAAACCAAAGAAGAAGAAGGAGAAGAAGGAGAAGGAGAAGAAGAAGAAGGACAA
GGAGAAGGAGAAGGAGAAGCACAAAGTGAAGGCCGAGGAAGAGAAGAAGGCCAAGGTGGCTCCGCCTGCCAAGCA
GGCTCAGCAGAAGAAGGCTCCTGCCAAGAAGGCCAACAGCACGACCACGGCCGGCAGACAGCTGAAGAAAGGCGG
CAAGCAGGCATCTGCCTCCTACGACTCAGAGGAAGAGGAGGAGGGCCTGCCCATGAGCTACGATGAAAAGCGCCA
GCTTAGCCTGGACATCAACCGGCTGCCCGGGGAGAAGCTGGGCCGGGTAGTGCACATCATCCAATCTCGGGAGCC
CTCGCTCAGGGACTCCAACCCCGACGAGATAGAAATTGACTTTGAGACTCTGAAACCCACCACTTTGCGGGAACT
GGAGAGATATGTCAAGTCTTGTTTACAGAAAAAGCAAAGGAAACCGTTCTCAGCAAGCGGGAAGAAACAGGCAGC
CAAGTCGAAAGAGGAGCTAGCTCAGGAAAAGAAGAAGGAGCTGGAAAAGCGTCTGCAGGATGTCAGCGGGCAGCT
GAGCAGCAGCAAGAAGCCCGCCCGGAAAGAGAAGCCCGGCTCAGCACCCTCAGGGGGCCCGTCCAGGCTCAGCAG
CAGCAGCTCCTCCGAGTCTGGGAGCAGCAGCTCCAGCGGGTCCAGCTCTGACAGCAGTGACTCAGAA**TGA**ACTGG
CTTCGGACAGAACAGGACAGATGGATGTCGCACACGCCGAGACTCTGCCGTACCCCTCTGTGGTTCATATTACTA
CTTCTGTTCCATGGTGTGCAGGTCTGCTTCTTAATTCAGTGTTATGATATCTTCCAGTTTTTGCTTTCATAGGTC
AGAGATCTATCTTGTGTGTGCGTTAGACTTGATGAGAAGGTGTGAACTCTGCAGAAAGTCTCTTCTTCATCACTG
AATTCAGTCACTTGGAGATGACAACTTCAAATGCTAACCCGATGACCCCAGAAAACCGTGTGAGATTCGTACCGA
AGAACCTTGTGGAATCCCTTTGCTTAGGCCCAACCTGGTCGATAGCTCGAGAAGAATTTTTTCCAAGGAAATGT
CTCGGATATGGGTACTGTATTTGAAAGCTGTTAGCTTTGTCAACACGCATTGTCCTTGTCATTTGGGCCCCGAGC
TCTGACCCTCGTGTCTGACGCGGCCACCTCTTTCTGGAGGGGCTGAGGACAGATGTGCCTGCTTGTGGAGACCAG
GCTGGGCCTAAGCGAAGGGTCATCGCAGCCCCAGCCCGGAGCGTGGAGCCCTTGGGGGGTGGTCGGGTGGGATGT
GCGTTCTCCGCTCGTGGTGATGTCAGGAGCTCCTCGGAGGGAACAGAGCGGCTGTGTATGCAGCCTGCAGGTTTC
CATACACTGAAGCTTTTACCTCAACTTTAAAAAAAAAAAGAAGAAAGATTAAAAAAAAAAAAAAAAAACTCGA
GGCATCTATG

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FIGURE 788

MSTATTVAPAGIPATPGPVNPPPPEVSNPSKPGRKTNQLQYMQNVVVKTLWKHQFAWPFYQPVDAIKLNLPDYHK
IIKNPMDMGTIKKRLENNYYWSASECMQDFNTMFTNCYIYNKPTDDIVLMAQALEKIFLQKVAQMPQEEVELLPP
APKGKGRKPAAGAQSAGTQQVAAVSSVSPATPFQSVPPTVSQTPVIAATPVPTITANVTSVPVPPAAAPPPPATP
IVPVVPPTPPVVKKKGVKRKADTTTPTTSAITASRSESPPPLSDPKQAKVVARRESGGRPIKPPKKDLEDGEVPQ
HAGKKGKLSEHLRYCDSILREMLSKKHAAYAWPFYKPVDAEALELHDYHDIIKHPMDLSTVKRKMDGREYPDAQG
FAADVRLMFSNCYKYNPPDHEVVAMARKLQDVFEMRFAKMPDEPVEAPALPAPAAPMVSKGAESSRSSEESSSDS
GSSDSEEERATRLAELQEQLKAVHEQLAALSQAPVNKPKKKKEKKEKEKKKKDKEKEKEKHKVKAEEEKKAKVAP
PAKQAQQKKAPAKKANSTTTAGRQLKKGGKQASASYDSEEEEEGLPMSYDEKRQLSLDINRLPGEKLGRVVHIIQ
SREPSLRDSNPDEIEIDFETLKPTTLRELERYVKSCLQKKQRKPFSASGKKQAAKSKEELAQEKKKELEKRLQDV
SGQLSSSKKPARKEKPGSAPSGGPSRLSSSSSSSESGSSSSSGSSSDSSDSE

FIGURE 789A

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GAATTCCGGGAGCCCGCGGAGGCTGCTGCAGCAGCCCGAACCGGCGTCCGAGTCCGGGGAAGGCCCCCGCGAGCG
CAGGGAGGGGCCGGAAAGTTCCGGCGAACTGGGGGAGCGGCAGTGGGAGAGCGTCGGGCGGGAGGCGGTGGTCCT
GGGAGCGGCCCCGGCGCCCGAAGCCGCCCCGAGCTGGTGGGGAGGGTCCCGGCCGGTGGGGCCGGGCTGGCGGGG
GAGGGGCGCCTGGGGGTGCAAGAGGCGAATTGGCTGCCCGGGGTGCAGGAGGGACAGGTGGTGCGGGCTGTCAGG
AAACCTACCTGAACGGGAAGGAGCCCCAGGAGGGAGAGGGACCCGGCGAGGGCTCAGGACCCGGAGGCGCCGGCG
GAGGAGGAGGTGGTGACTGGCAGGCCCGGGCCCCACGGTACCTCCGGGGCTGAAGGGGACGCAGGATGTAGGGGC
ATGGGGAGTCGGGCGCAGAAGAGTGCGGGGAACGCTGAGCTCTGGGAGCCACTGCCTGAGGGCAGGCCGCGGCCG
GCGGGAACCTCTTCTGCCGTCTCAGCCTGGGCGTCGCTGAAGCTGTGTCTGCGGGGAGGCAGCGGAAGGCGGCAG
AGGCTGGGAGGCGGCAGA**ATG**CAGCCAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAGCTG
CAACAGTACTTCCTGCGGCTCCGAGATGACCTCAACGTCACCCGCCTGTCCCACTTTGAGTACGTCAAGAATGAG
GACCTGGAGAAGATCGGCATGGGTCGGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCCTTG
TGCAAACGCAAGTCGTGGATGAGTAAGGTGTTCAGTGGAAAGCGACTGGAGGCTGAGTTCCCACCTCATCACTCT
CAGAGCACCTTCCGGAAGACCTCGCCCGCCCCTGGGGCCCAGCAGGGGAGGGGCCCCTGCAGAGCCTCACCTGC
CTCATTGGGGAGAAGGACCTGCGCCTCCTGGAGAAGCTGGGTGATGGTTCCTTTGGCGTGGTGCGCAGGGGCGAG
TGGGACGCGCCCTCAGGGAAGACGGTGAGTGTGGCTGTGAAGTGCCTGAAGCCCGATGTCCTGAGCCAGCCAGAA
GCCATGGACGACTTCATCCGGGAGGTCAATGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCCTCTACGGG
GTGGTGCTCACGCCGCCCATGAAGATGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGTAAG
CACCAGGGCCACTTCCTCCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTGGAG
TCCAAGCGCTTTATTCACCGTGACCTGGCTGCCCGCAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATCGGG
GACTTTGGGCTGATGCGAGCACTACCTCAGAATGACGACCATTACGTCATGCAGGAACATCGCAAGGTGCCCTTC
GCCTGGTGTGCCCCCGAGAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGACACCTGGATGTTCGGGGTGACA
CTGTGGGAAATGTTCACCTACGGCCAGGAGCCCTGGATCGGCCTCAACGGCAGTCAGATCCTGCATAAGATCGAC
AAGGAGGGGGAGCGGCTGCCCCGGCCCGAGGACTGTCCCCAGGACATCTACAACGTCATGGTCCAGTGCTGGGCT
CACAAGCCAGAGGACAGACCCACGTTTGTGGCCCTGCGGGACTTCCTGCTGGAGCCCAGCCCACAGACATGCGG
GCCCTTCAGGACTTTGAGGAACCGGACAAGCTGCACATCCAGATGAATGATGTCATCACCGTCATCGAGGGAAGG
GCCGAGAACTACTGGTGGCGTGGCCAGAACACACGGACGCTGTGTGTGGGGCCCTTCCCTCGCAACGTGGTGACC
TCCGTGGCCGGCCTGTCGGCCCAGGACATCAGCCAGCCCCTGCAGAACAGCTTCATCCACACAGGGCATGGCGAC
AGTGACCCCCGCCACTGCTGGGGCTTCCCGGACAGGATTGACGAACTGTATCTGGGAAACCCCATGGACCCCCCC
GACCTCCTGAGCGTGGAACTGAGCACCTCCCGGCCCCCCCAGCATCTAGGAGGGGTGAAAAAACCAACCTATGAC
CCTGTGAGCGAGGACCAAGACCCCTTGTCCAGCGACTTCAAGAGGCTGGGCCTGCGGAAGCCAGGCCTGCCCCGA
GGGCTGTGGCTGGCGAAGCCCTCGGCGCGGGTGCCGGGCACCAAGGCCAGCCGAGGCAGCGGGGCTGAGGTCACG
CTCATCGACTTCGGTGAGGAGCCCGTGGTCCCGGCCCTACGGCCCTGCCCGCCCTCCCTGGCGCAGCTGGCCATG
GACGCCTGCTCCCTGCTGGACGAGACCCCGCCTCAGAGCCCCACGCGGGCACTGCCCCGGCCCCTGCACCCCACG
CCTGTGGTGGACTGGGACGCACGCCCGCTGCCCCCCCCGCCCGCCTATGACGACGTGGCCCAGGATGAGGATGAC
TTTGAGATCTGCTCCATCAACAGCACCCTCGTGGGCGCGGGGGTCCCTGCCGGGCCCAGCCAGGGCCAGACCAAC
TACGCCTTTGTGCCTGAGCAGGCGCGGCCGCCCCCTCCCCTGGAGGACAACCTGTTCCTCCCGCCCCAGGGTGGG
GGCAAGCCGCCCAGCTCCGCACAGACCGCAGAGATCTTCCAGGCGCTACAGCAGGAGTGCATGAGGCAACTGCAG
GCTCCGGGCTCCCCGGCCCCCTCTCCCAGCCCGGGGGGTGACGACAAGCCCCAGGTGCCTCCTCGGGTACCCATC
CCCCCTCGGCCCACGCGCCCACACGTCCAGCTGTCTCCAGCCCCCCCGGGCGAGGAGGAGACCAGCCAGTGGCCT
GGACCTGCTTCCCCTCCCCGGGTGCCTCCGCGGGAGCCCCTGTCCCCTCAAGGCTCGAGGACACCCAGCCCCCTG
GTACCACCTGGCAGCTCCCCGCTGCCACCCCGGCTCTCAAGCTCACCTGGGAAGACCATGCCCACCACCCAGAGC
TTTGCCTCAGACCCCAAGTACGCCACCCCCCAGGTGATCCAGGCCCCTGGCGCGGGTGGTCCCTGCATCCTGCCC
ATCGTCCGGGATGGCAAGAAGGTCAGCAGCACCCACTATTACTTGCTGCCCGAGCGACCATCCTACCTGGAGCGC
TACCAGCGCTTCCTGCGTGAGGCCCAGAGCCCCGAGGAGCCTACCCCCCTGCCTGTGCCTCTGCTGCTGCCCCCA
CCCAGCACCCCAGCCCCCGCCGCCCCCACGGCCACCGTGCGGCCGATGCCCCAGGCTGCCTTGGACCCCAAGGCC
AACTTCTCCACCAACAACAGCAACCCAGGGGCCCGGCCACCACCCCCGAGGGCCACTGCTCGGCTGCCACAGAGG
GGCTGCCCTGGCGATGGGCCAGAGGCGGGCCGGCCAGCAGACAAGATCCAGATGGCCATGGTGCATGGGGTGACC
ACAGAGGAGTGCCAGGCGGCCCTGCAGTGCCACGGCTGGAGCGTGCAGAGGGCTGCCCAGTATCTGAAGGTGGAG
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FIGURE 789B

CAGCTCTTCGGGCTGGGTCTGCGGCCCAGAGGGGAGTGCCACAAAGTGCTGGAGATGTTCGACTGGAACCTGGAG
CAGGCCGGCTGCCACCTTCTGGGCTCCTGGGGCCCTGCCCACCACAAGCGC**TGA**GATGCGTCTGGAGAGCCAGAG
GGCCTGCCTGAAGGAATCACCTGAGCCTGTCCGTCCACCAGGAGTGGGGAGATGCCCCCATCCAGTCCTGGAGGA
CCCGCTGCTCCTGCTGCTCCCGGGGATGGAGCAAGGCCAAGGCTGCGGGAGGCTGGGAGCCCTGCCCTGCCCATC
CCTCCCGCACCAGTGCTGTCCCTGCACACTTTGGTTCAGTCCCGGTGCCCCTGCCAAGATGTGGAAGGGGCCGGG
TGAAGACAGGCTTGAGGGCCGCCCCAGCAGGCTCTGGGTATGACCTGCCTCTGGCCCTGGTCCTGGGCGGGGCCT
GTGGGTGGAGTAGTACCCCCAGGCCCTGCCCTGGGTGACAGACTGGGAGGAAACCAGGCTGGACCTGGGCAGGCG
GGATGTGTTGGCCACAGGGAGAGGCGGACCGGCACCCGGTGGGACCTCCTAGGACTGGGCCTTCTTCCAGGGGGC
CCCTGGCAGCAGCTGGGGTGTCGGGCAGAATGTGACTTGTGGCCTTACCATGGACTTGAATGGGACTTGGCTGGC
CTCAGGATCTTGTGCCTGGAAATAGCCTGAGGTGGCTCAGGAAGCGGAGAAAGGGTGCCAGACCATTCTCTGGCG
GGGACCAGGGCCCAAGGCCAGGGCTGGAAGGAGACCAAGGGGCAGCCCCTGGAGGACATCAGTGCTTCCTCTTCC
ACCCAATTCCCCCACGCGGTTCCATGTTTTCCCACCAGCCTGTTGGGCGAAGTTGCTGCTCCGGCATTCAGTCCT
GCTTCTTCCAGAGAAATAAAGTTAGTTTCTATTTTATGTTAAAAAAAA

FIGURE 790

MQPEEGTGWLLELLSEVQLQQYFLRLRDDLNVTRLSHFEYVKNEDLEKIGMGRPGQRRLWEAVKRRKALCKRKSW
MSKVFSGKRLEAEFPPHHSQSTFRKTSPAPGGPAGEGPLQSLTCLIGEKDLRLLEKLGDGSFGVVRRGEWDAPSG
KTVSVAVKCLKPDVLSQPEAMDDFIREVNAMHSLDHRNLIRLYGVVLTPPMKMVTELAPLGSLLDRLRKHQGHFL
LGTLSRYAVQVAEGMGYLESKRFIHRDLAARNLLLATRDLVKIGDFGLMRALPQNDDHYVMQEHRKVPFAWCAPE
SLKTRTFSHASDTWMFGVTLWEMFTYGQEPWIGLNGSQILHKIDKEGERLPRPEDCPQDIYNVMVQCWAHKPEDR
PTFVALRDFLLEAQPTDMRALQDFEEPDKLHIQMNDVITVIEGRAENYWWRGQNTRTLCVGPFPRNVVTSVAGLS
AQDISQPLQNSFIHTGHGDSDPRHCWGFPDRIDELYLGNPMDPPDLLSVELSTSRPPQHLGGVKKPTYDPVSEDQ
DPLSSDFKRLGLRKPGLPRGLWLAKPSARVPGTKASRGSGAEVTLIDFGEEPVVPALRPCPPSLAQLAMDACSLL
DETPPQSPTRALPRPLHPTPVVDWDARPLPPPPAYDDVAQDEDDFEICSINSTLVGAGVPAGPSQGQTNYAFVPE
QARPPPPLEDNLFLPPQGGGKPPSSAQTAEIFQALQQECMRQLQAPGSPAPSPSPGGDDKPQVPPRVPIPPRPTR
PHVQLSPAPPGEEETSQWPGPASPPRVPPREPLSPQGSRTPSPLVPPGSSPLPPRLSSSPGKTMPTTQSFASDPK
YATPQVIQAPGAGGPCILPIVRDGKKVSSTHYYLLPERPSYLERYQRFLREAQSPEEPTPLPVPLLLPPPSTPAP
AAPTATVRPMPQAALDPKANFSTNNSNPGARPPPPRATARLPQRGCPGDGPEAGRPADKIQMAMVHGVTTEECQA
ALQCHGWSVQRAAQYLKVEQLFGLGLRPRGECHKVLEMFDWNLEQAGCHLLGSWGPAHHKR

FIGURE 791A

CAGTCGCTCCGAGCGGCCGCGAGCAGAGCCGCCCAGCCCTGTCAGCTGCGCCGGGACGATAAGGAGTCAGGCCAG

GGCGGGATGACACTCATTGATTCTAAAGCATCTTTAATCTGCCAGGCGGAGGGGGCTTTGCTGGTCTTTCTTGGA

CTATTCCAGAGAGGACAACTGTCATCTGGGAAGTAACAACGCAGG**ATG**CCCCCTGGGGTGGACTGCCCCATGGAA

TTCTGGACCAAGGAGGAGAATCAGAGCGTTGTGGTTGACTTCCTGCTGCCCACAGGGGTCTACCTGAACTTCCCT

GTGTCCCGCAATGCCAACCTCAGCACCATCAAGCAGCTGCTGTGGCACCGCGCCCAGTATGAGCCGCTCTTCCAC

ATGCTCAGTGGCCCCGAGGCCTATGTGTTCACCTGCATCAACCAGACAGCGGAGCAGCAAGAGCTGGAGGACGAG

CAACGGCGTCTGTGTGACGTGCAGCCCTTCCTGCCCGTCCTGCGCCTGGTGGCCCGTGAGGGCGACCGCGTGAAG

AAGCTCATCAACTCACAGATCAGCCTCCTCATCGGCAAAGGCCTCCACGAGTTTGACTCCTTGTGCGACCCAGAA

GTGAACGACTTTCGCGCCAAGATGTGCCAATTCTGCGAGGAGGCGGCCGCCCGCCGGCAGCAGCTGGGCTGGGAG

GCCTGGCTGCAGTACAGTTTCCCCCTGCAGCTGGAGCCCTCGGCTCAAACCTGGGGGCCTGGTACCCTGCGGCTC

CCGAACCGGGCCCTTCTGGTCAACGTTAAGTTTGAGGGCAGCGAGGAGAGCTTCACCTTCCAGGTGTCCACCAAG

GACGTGCCGCTGGCGCTGATGGCCTGTGCCCTGCGGAAGAAGGCCACAGTGTTCCGGCAGCCGCTGGTGGAGCAG

CCGGAAGACTACACGCTGCAGGTGAACGGCAGGCATGAGTACCTGTATGGCAACTACCCGCTCTGCCAGTTCCAG

TACATCTGCAGCTGCCTGCACAGTGGGTTGACCCCTCACCTGACCATGGTCCATTCCTCCTCCATCCTCGCCATG

CGGGATGAGCAGAGCAACCCTGCCCCCCAGGTCCAGAAACCGCGTGCCAAACCACCTCCCATTCCTGCGAAGAAG

CCTTCCTCTGTGTCCCTGTGGTCCCTGGAGCAGCCGTTCCGCATCGAGCTCATCCAGGGCAGCAAAGTGAACGCC

GACGAGCGGATGAAGCTGGTGGTGCAGGCCGGGCTTTTCCACGGCAACGAGATGCTGTGCAAGACGGTGTCCAGC

TCGGAGGTGAGCGTGTGCTCGGAGCCCGTGTGGAAGCAGCGGCTGGAGTTCGACATCAACATCTGCGACCTGCCC

CGCATGGCCCGTCTCTGCTTTGCGCTGTACGCCGTGATCGAGAAAGCCAAGAAGGCTCGCTCCACCAAGAAGAAG

TCCAAGAAGGCGGACTGCCCCATTGCCTGGGCCAACCTCATGCTGTTTGACTACAAGGACCAGCTTAAGACCGGG

GAACGCTGCCTCTACATGTGGCCCTCCGTCCCAGATGAGAAGGGCGAGCTGCTGAACCCCACGGGCACTGTGCGC

AGTAACCCCAACACGGATAGCGCCGCTGCCCTGCTCATCTGCCTGCCCGAGGTGGCCCCGCACCCCGTGTACTAC

CCCGCCCTGGAGAAGATCTTGGAGCTGGGGCGACACAGCGAGTGTGTGCATGTCACCGAGGAGGAGCAGCTGCAG

CTGCGGGAAATCCTGGAGCGGCGGGGGTCTGGGGAGCTGTATGAGCACGAGAAGGACCTGGTGTGGAAGCTGCGG

CATGAAGTCCAGGAGCACTTCCCGGAGGCGCTAGCCCGGCTGCTGCTGGTCACCAAGTGGAACAAGCATGAGGAT

GTGGCCCAGATGCTCTACCTGCTGTGCTCCTGGCCGGAGCTGCCCGTCCTGAGCGCCCTGGAGCTGCTAGACTTC

AGCTTCCCCGATTGCCACGTAGGCTCCTTCGCCATCAAGTCGCTGCGGAAACTGACGGACGATGAGCTGTTCCAG

TACCTGCTGCAGCTGGTGCAGGTGCTCAAGTACGAGTCCTACCTGGACTGCGAGCTGACCAAATTCCTGCTGGAC

CGGGCCCTGGCCAACCGCAAGATCGGCCACTTCCTTTTCTGGCACCTCCGCTCCGAGATGCACGTGCCGTCGGTG

GCCCTGCGCTTCGGCCTCATCCTGGAGGCCTACTGCAGGGGCAGCACCCACCACATGAAGGTGCTGATGAAGCAG

GGGGAAGCACTGAGCAAACTGAAGGCCCTGAATGACTTCGTCAAGCTGAGCTCTCAGAAGACCCCCAAGCCCCAG

ACCAAGGAGCTGATGCACTTGTGCATGCGGCAGGAGGCCTACCTAGAGGCCCTCTCCCACCTGCAGTCCCCACTC

GACCCCAGCACCCTGCTGGCTGAAGTCTGCGTGGAGCAGTGCACCTTCATGGACTCCAAGATGAAGCCCCTGTGG

ATCATGTACAGCAACGAGGAGGCAGGCAGCGGCGGCAGCGTGGGCATCATCTTTAAGAACGGGGATGACCTCCGG

CAGGACATGCTGACCCTGCAGATGATCCAGCTCATGGACGTCCTGTGGAAGCAGGAGGGGCTGGACCTGAGGATG

ACCCCCTATGGCTGCCTCCCCACCGGGGACCGCACAGGCCTCATTGAGGTGGTACTCCGTTCAGACACCATCGCC

AACATCCAACTCAACAAGAGCAACATGGCAGCACAGCCGCCTTCAACAAGGATGCCCTGCTCAACTGGCTGAAG

TCCAAGAACCCGGGGGAGGCCCTGGATCGAGCCATTGAGGAGTTCACCCTCTCCTGTGCTGGCTATTGTGTGGCC

ACATATGTGCTGGGCATTGGCGATCGGCACAGCGACAACATCATGATCCGAGAGAGTGGGCAGCTGTTCCACATT

GATTTTGGCCACTTTCTGGGGAATTTCAAGACCAAGTTTGGAATCAACCGCGAGCGTGTCCCATTCATCCTCACC

TATGACTTTGTCCATGTGATTCAGCAGGGGAAGACTAATAATAGTGAGAAATTTGAACGGTTCCGGGGCTACTGT

GAAAGGGCCTACACCATCCTGCGGCGCCACGGGCTTCTCTTCCTCCACCTCTTTGCCCTGATGCGGGCGGCAGGC

CTGCCTGAGCTCAGCTGCTCCAAAGACATCCAGTATCTCAAGGACTCCCTGGCACTGGGGAAAACAGAGGAGGAG

GCACTGAAGCACTTCCGAGTGAAGTTTAACGAAGCCCTCCGTGAGAGCTGGAAAACCAAAGTGAACTGGCTGGCC

CACAACGTGTCCAAAGACAACAGGCAG**TAG**TGGCTCCTCCCAGCCCTGGGCCCAAGAGGAGGCGGCTGCGGGTCG

TGGGGACCAAGCACATTGGTCCTAAAGGGGCTGAAGAGCCTGAACTGCACCTAACGGGAAGAACCGACATGGCT

GCCTTTTGTTTACACTGGTTATTTATTTATGACTTGAAATAGTTTAAGGAGCTAAACAGCCATAAACGGAAACGC

CTCCTTCATTCAGCGGCGGTGCTGGGCCCCCCGAGGCTGCACCTGGCTCTCGGCTGAGGATTGTCACCCCAAGTC

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FIGURE 791B

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TTCCAGCTGGTGGATCTGGGCCCAGCAAAGACTGTTCTCCTCCCGAGGGAACCTTCTTCCCAGGCCTCCCGCCAG
ACTGCCTGGGTCCTGGCGCCTGGCGGTCACCTGGTGCCTACTGTCCGACAGGATGCCTCGATCCTCGTGCGACCC
ACCCTGTGTATCCTCCCTAGACTGAGTTCTGGCAGCTCCCCGAGGCAGCCGGGGTACCCTCTAGATTCAGGGATG
CTTGCTCTCCACTTTTCAAGTGGGTCTTGGGTACGAGAATTCCCTCATCTTTCTCTACTGTAAAGTGATTTTGTT
TGCAGGTAAGAAAATAATAGATGACTCACCACACCTCTACGGCTGGGGAGATCAGGCCCAGCCCCATAAAGGAGA
ATCTACGCTGGTCCTCAGGACGTGTTAAAGAGATCTGGGCCTCATGTAGCTCACCCCGGTCACGCATGAAGGCAA
AAGCAGGTCAGAAGCGAATACTCTGCCATTATCTCAAAAATCTTTTTTTTTTTTTTTGAGATGGGGTCTTCCT
CTGTTGCCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGTAACCTCCGCCTCCCAGGTTCAAGTGATTCT
TCTTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGTGTGCACCACCCGTACCCAGCTAATTTTTGTATTTTAGT
AGAGACGGGGGTTTCACCATGTTGGCTGGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCGCCTGAGCCT
CCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCCGGCCCACTCTGCCATTGTCTAAGCCACCTCTGAAAG
CAGGTTTTAACAAAAGGATGAGGCCAGAACTCTTCCAGAACCATCACCTTTGGGAACCTGCTGTGAGAGTGCTGA
GGTACCAGAAGTGTGAGAACGAGGGGGCGTGCTGGGATCTTTCTCTCTGACTATACTTAGTTTGAAATGGTGCAG
GCTTAGTCTTAAGCCTCCAAAGGCCTGGATTTGAGCAGCTTTAGAAATGCAGGTTCTAGGGCTTCTCCCAGCCTT
CAGAAGCCAACTAACTCTGCAGATGGGGCTAGGACTGTGGGCTTTTAGCAGCCCACAGGTGATCCTAACATATCA
GGCCATGGACTCAGGACCTGCCCGGTGATGCTGTTGATTTCTCAAAGGTCTTCCAAAACTCAACAGAGCCAGAAG
TAGCCGCCCGCTCAGCGGCTCAGGTGCCAGCTCTGTTCTGATTCACCAGGGGTCCGTCAGTAGTCATTGCCACCC
GCGGGGCACCTCCCTGGCCACACGCCTGTTCCCAGCAAGTGCTGAAACTCACTAGACCGTCTGCCTGTTTCGAAA
TGGGGAAAGCCGTGCGTGCGCGTTATTTATTTAAGTGCGCCTGTGTGCGCGGGTGTGGGAGCACACTTTGCAAAG
CCACAGCGTTTCTGGTTTTGGGTGTACAGTCTTGTGTGCCTGGCGAGAAGAATATTTTCTATTTTTTAAGTCAT
TTCATGTTTCTGTCTGGGGAAGGCAAGTTAGTTAAGTATCACTGATGTGGGTTGAGACCAGCACTCTGTGAAACC
TTGAAATGAGAAGTAAAGGCAGATGAAAAGAAAAAAAAAAAAAA
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FIGURE 792

MPPGVDCPMEFWTKEENQSVVVDFLLPTGVYLNFPVSRNANLSTIKQLLWHRAQYEPLFHMLSGPEAYVFTCINQ
TAEQQELEDEQRRLCDVQPFLPVLRLVAREGDRVKKLINSQISLLIGKGLHEFDSLCDPEVNDFRAKMCQFCEEA
AARRQQLGWEAWLQYSFPLQLEPSAQTWGPGTLRLPNRALLVNVKFEGSEESFTFQVSTKDVPLALMACALRKKA
TVFRQPLVEQPEDYTLQVNGRHEYLYGNYPLCQFQYICSCLHSGLTPHLTMVHSSSILAMRDEQSNPAPQVQKPR
AKPPPIPAKKPSSVSLWSLEQPFRIELIQGSKVNADERMKLVVQAGLFHGNEMLCKTVSSSEVSVCSEPVWKQRL
EFDINICDLPRMARLCFALYAVIEKAKKARSTKKKSKKADCPIAWANLMLFDYKDQLKTGERCLYMWPSVPDEKG
ELLNPTGTVRSNPNTDSAAALLICLPEVAPHPVYYPALEKILELGRHSECVHVTEEEQLQLREILERRGSGELYE
HEKDLVWKLRHEVQEHFPEALARLLLVTKWNKHEDVAQMLYLLCSWPELPVLSALELLDFSFPDCHVGSFAIKSL
RKLTDDELFQYLLQLVQVLKYESYLDCELTKFLLDRALANRKIGHFLFWHLRSEMHVPSVALRFGLILEAYCRGS
THHMKVLMKQGEALSKLKALNDFVKLSSQKTPKPQTKELMHLCMRQEAYLEALSHLQSPLDPSTLLAEVCVEQCT
FMDSKMKPLWIMYSNEEAGSGGSVGIIFKNGDDLRQDMLTLQMIQLMDVLWKQEGLDLRMTPYGCLPTGDRTGLI
EVVLRSDTIANIQLNKSNMAATAAFNKDALLNWLKSKNPGEALDRAIEEFTLSCAGYCVATYVLGIGDRHSDNIM
IRESGQLFHIDFGHFLGNFKTKFGINRERVPFILTYDFVHVIQQGKTNNSEKFERFRGYCERAYTILRRHGLLFL
HLFALMRAAGLPELSCSKDIQYLKDSLALGKTEEEALKHFRVKFNEALRESWKTKVNWLAHNVSKDNRQ

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FIGURE 793

CGCTCCTCGGGCTGCCCCTCGGTTGACA**ATG**GTCTCCAGGATGGTCTCTACCATGCTATCTGGCCTACTGTTTTG
GCTGGCATCTGGATGGACTCCAGCATTTGCTTACAGCCCCCGGACCCCTGACCGGGTCTCAGAAGCAGATATCCA
GAGGCTGCTTCATGGTGTTATGGAGCAATTGGGCATTGCCAGGCCCCGAGTGGAATATCCAGCTCACCAGGCCAT
GAATCTTGTGGGCCCCCAGAGCATTGAAGGTGGAGCTCATGAAGGACTTCAGCATTTGGGTCCTTTTGGCAACAT
CCCCAACATCGTGGCAGAGTTGACTGGAGACAACATTCCTAAGGACTTTAGTGAGGATCAGGGGTACCCAGACCC
TCCAAATCCCTGTCCTGTTGGAAAAACAGATGATGGATGTCTAGAAAACACCCCTGACACTGCAGAGTTCAGTCG
AGAGTTCCAGTTGCACCAGCATCTCTTTGATCCGGAACATGACTATCCAGGCTTGGGCAAGTGGAACAAGAAACT
CCTTTACGAGAAGATGAAGGGAGGAGAGAGACGAAAGCGGAGGAGTGTCAATCCATATCTACAAGGACAGAGACT
GGATAATGTTGTTGCAAAGAAGTCTGTCCCCCATTTTTCAGATGAGGATAAGGATCCAGAG**TAA**AGAGAAGATGC
TAGACGAAAACCCACATTACCTGTTAGGCCTCAGCATGGCTTATGTGCACGTGTAAATGGAGTCCCTGTGAATGA
CAGCATGTTTCTTACATAGATAATTATGGATACAAAGCAGCTGTATGTAGATAGTGTATTGTCTTCACACCGATG
ATTCTGCTTTTTGCTAAATTAGAATAAGAGCTTTTTTGTTCTTGGGTTTTTAAAATGTGAATCTGCAATGATCA
TAAAAATTAAAATGTGAATGTCAACAATAAAAAGCAAGACTATGAAAGGCTCAGATTTCTTGCAGTTTAAAATGG
TGTCTGAGGTTGTACTATTTTGGCCAAGTCTGTAGAAAGCTGTCATTTGATTTTGATTATGTAGTTCATCCAGCC
CTTGGGCATTGTTATACACCAGTAAAGAAGGCTGTACTCAAGAGGAGGAGCTGACACATTTCACTTGGCTGCGTC
TTAATAAACATGAATGCAAGCATTGGC

FIGURE 794

MVSRMVSTMLSGLLFWLASGWTPAFAYSPRTPDRVSEADIQRLLHGVMEQLGIARPRVEYPAHQAMNLVGPQSIE
GGAHEGLQHLGPFGNIPNIVAELTGDNIPKDFSEDQGYPDPPNPCPVGKTDDGCLENTPDTAEFSREFQLHQHLF
DPEHDYPGLGKWNKKLLYEKMKGGERRKRRSVNPYLQGQRLDNVVAKKSVPHFSDEDKDPE

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FIGURE 795

GCGAGGCGCCCGAAGCCGTCGCGGCGGGGACC**ATG**TTGCTTCCGAACATCCTGCTCACCGGTACACCAGGGGTTG
GAAAAACCACACTAGGCAAAGAACTTGCGTCAAAATCAGGACTGAAATACATTAATGTGGGTGATTTAGCTCGAG
AAGAGCAATTGTATGATGGCTATGATGAAGAGTATGACTGTCCCATTTTAGATGAAGACAGAGTAGTTGATGAGT
TAGATAACCAAATGAGAGAAGGTGGAGTTATTGTTGATTACCATGGTTGTGATTTCTTCCCTGAACGCTGGTTTC
ATATAGTTTTTGTGCTGAGAACAGATACCAATGTATTGTACGAAAGACTTGAAACAAGGGGTTATAATGAGAAGA
AACTAACAGACAATATTCAGTGTGAGATTTTTCAAGTTCTTTATGAAGAAGCCACAGCATCCTACAAGGAAGAAA
TCGTGCATCAGCTGCCCAGTAATAAACCAGAAGAGCTAGAAAATAATGTAGATCAGATCTTGAAATGGATTGAGC
AGTGGATCAAAGATCATAACTCT**TGA**CTTATAAGGCTAGCTACTTAATAATCACTCTTGTTGATATCTCTGCCGA
CATCATAGAAATTGTTCAAGTGTCAGTAACACTTTATTAAAATCATGTTGCAGAACCAGCAGGTGGATAGTATAT
AGGTTTATGCCTGTGTTTCTTTTTCTCCATGAGAAAGCTAAACATGAAATATAATGAATATAGTATTATTAAGGA
TTGAGACAAAAACTGTGATTTTAATACTTAAATTGCTAAAGAATAAATAAATCTGACAAAATGGGTGGATATCTT
TTAAGTTTATTACAGAAAAAAATGCAGATGATCTCTTAAAATAAACTAAAGATAAAGCAAAAAA

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FIGURE 796

MLLPNILLTGTPGVGKTTLGKELASKSGLKYINVGDLAREEQLYDGYDEEYDCPILDEDRVVDELDNQMREGGVI
VDYHGCDFFPERWFHIVFVLRTDTNVLYERLETRGYNEKKLTDNIQCEIFQVLYEEATASYKEEIVHQLPSNKPE
ELENNVDQILKWIEQWIKDHNS

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FIGURE 797

CAGTGCCTTGGTAATGACCAGGGCTCCAGAAAGAG**ATG**TCCTTGTGGCTGGGGGCCCCTGTGCCTGACATTCCTC
CTGACTCTGCGGTGGAGCTGTGGAAGCCAGGCGCACAGGATGCAAGCAGCCAGGCCCAGGGAGGCAGCAGCTGCA
TCCTCAGAGAGGAAGCCAGGATGCCCCACTCTGCTGGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCCA
CAGCCCTGCTCACCAGGGCAGAGCCCCCTTCAGAACCCACAGAGATCCGTCCACAAAAGCGGAAAAAGGGGCCAG
CCCCCAAAATGCTGGGGAACGAGCTATGCAGCGTGTGTGGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGA
GCTGCGAGGGCTGCAAGGGATTCTTCCGCCGCAGCGTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCC
ACTGCCCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTCGGCTTCGCAAATGCCGTCAGGCTGGCATGC
GGGAGGAGTGTGTCCTGTCAGAAGAACAGATCCGCCTGAAGAAACTGAAGCGGCAAGAGGAGGAACAGGCTCATG
CCACATCCTTGCCCCCCAGGCGTTCCTCACCCCCCCAAATCCTGCCCCAGCTCAGCCCGGAACAACTGGGCATGA
TCGAGAAGCTCGTCGCTGCCCAGCAACAGTGTAACCGGCGCTCCTTTTCTGACCGGCTTCGAGTCACGCCTTGGC
CCATGGCACCAGATCCCCATAGCCGGGAGGCCCGTCAGCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCT
CTGTGCAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCCTGCAGCTCAGCCGGGAGGACCAGATTGCCC
TGCTGAAGACCTCTGCGATCGAGGTGATGCTTCTGGAGACATCTCGGAGGTACAACCCTGGGAGTGAGAGTATCA
CCTTCCTCAAGGATTTCAGTTATAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGGAATTCATCAACCCCA
TCTTCGAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCGAGTTTGCCTTGCTCATTGCTATCAGCA
TCTTCTCTGCAGACCGGCCCAACGTGCAGGACCAGCTCCAGGTGGAGAGGCTGCAGCACACATATGTGGAAGCCC
TGCATGCCTACGTCTCCATCCACCATCCCCATGACCGACTGATGTTCCCACGGATGCTAATGAAACTGGTGAGCC
TCCGGACCCTGAGCAGCGTCCACTCAGAGCAAGTGTTTGCACTGCGTCTGCAGGACAAAAAGCTCCCACCGCTGC
TCTCTGAGATCTGGGATGTGCACGAA**TGA**CTGTTCTGTCCCCATATTTTCTGTTTTCTTGGCCGGATGGCTGAGG
CCTGGTGGCTGCCTCCTAGAAGTGGAACAGACTGAGAAGGGCAAACATTCCTGGGAGCTGGGCAAGGAGATCCTC
CCGTGGCATTAAAAGAGAGTCAAAGGGT

FIGURE 798

MSLWLGAPVPDIPPDSAVELWKPGAQDASSQAQGGSSCILREEARMPHSAGGTAGVGLEAAEPTALLTRAEPPSE
PTEIRPQKRKKGPAPKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYICHSGGHCPMDTYMRRKC
QECRLRKCRQAGMREECVLSEEQIRLKKLKRQEEEQAHATSLPPRRSSPPQILPQLSPEQLGMIEKLVAAQQQCN
RRSFSDRLRVTPWPMAPDPHSREARQQRFAHFTELAIVSVQEIVDFAKQLPGFLQLSREDQIALLKTSAIEVMLL
ETSRRYNPGSESITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQLNDAEFALLIAISIFSADRPNVQDQ
LQVERLQHTYVEALHAYVSIHHPHDRLMFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPPLLSEIWDVHE

FIGURE 799

GGCACGAGGCTGCGGCCGCAGTAGCCGGAGCCGGAGCCGCAGCCACCGGTGCCTTCCTTTCCCGCCGCCGCCCAG
CCGCCGTCCGGCCTCCCTCGGGCCCGAGCGCAGACCAGGCTCCAGCCGCGCGGCGCCGGCAGCCTCGCGCTCCCT
CTCGGGTCTCTCTCGGGCCTCGGGCACCGCGTCCTGTGGGCGGCCGCCTGCCTGCCCGCCCGCCCGCAGCCCCTT
GCCTGCCGGCCCCTGGGCGGCCCGTGCC**ATG**GGCACCGACAGCCGCGCGGCCAAGGCGCTCCTGGCGCGGGCCCG
CACCCTGCACCTGCAGACGGGGAACCTGCTGAACTGGGGCCGCCTGCGGAAGAAGTGCCCGTCCACGCACAGCGA
GGAGCTTCATGATTGTATCCAAAAAACCTTGAATGAATGGAGTTCCCAAATCAACCCAGATTTGGTCAGGGAGTT
TCCAGATGTCTTGGAATGCACTGTATCTCATGCAGTAGAAAAGATAAATCCTGATGAAAGAGAAGAAATGAAAGT
TTCTGCAAAACTGTTCATTGTAGAATCAAACTCTTCATCATCAACTAGAAGTGCAGTTGACATGGCCTGTTCAGT
CCTTGGAGTTGCACAGCTGGATTCTGTGATCATTGCTTCACCTCCTATTGAAGATGGAGTTAATCTTTCCTTGGA
GCATTTACAGCCTTACTGGGAGGAATTAGAAAACTTAGTTCAGAGCAAAAAGATTGTTGCCATAGGTACCTCTGA
TCTAGACAAAACACAGTTGGAACAGCTGTATCAGTGGGCACAGGTAAAACCAAATAGTAACCAAGTTAATCTTGC
CTCCTGCTGTGTGATGCCACCAGATTTGACTGCATTTGCTAAACAATTTGACATACAGCTGTTGACTCACAATGA
TCCAAAAGAACTGCTTTCTGAAGCAAGTTTCCAAGAAGCTCTTCAGGAAAGCATTCCTGACATTCAAGCGCACGA
GTGGGTGCCGCTGTGGCTACTGCGGTATTCGGTCATTGTGAAAAGTAGAGGAATTATCAAATCAAAAGGCTACAT
TTTACAAGCTAAAGAAGGGGTTCT**TAA**CTGACTTAGGAGCATAACTTACCTGTAATTTCCTTCAATATGAGAGA
AAATTGAGATGTGTAAAATCTAGTTACTGCCTGTAAATGGTGTCATTGAGGCAGATATTCTTTCGTCATATTTGA
CAGTATGTTGTCTGTCAAGTTTTAAATACTTATCTTGCCTCCATATCAATCCATTCTCATGAACCTCTGTATTGC
·TTTCCTTAAACTATTGTTTTCTAATTGAAATTGTCTATAAAGAAAATACTTGCAATATATTTTTCCTTTATTTTT
ATGACTAATATAAATCAAGAAAATTTGTTGTTAGATATATTTTGGCCTAGGTATCAGGGTAATGTATATACATAT
TTTTTATTTCCAAAAAAAATTCATTAATTGCTTCTTAACTCTTATTATAACCAAGCAATTTAATTACAATTGTTA
AAACTGAAATACTGGAAGAAGATATTTTTCCTGTCATTGATGAGATATATCAGAGTAACTGGAGTAGCTGGGATT
TACTAGTAGTGTAAATAAAATTCACTCTTCAATAC

FIGURE 800

MGTDSRAAKALLARARTLHLQTGNLLNWGRLRKKCPSTHSEELHDCIQKTLNEWSSQINPDLVREFPDVLECTVS
HAVEKINPDEREEMKVSAKLFIVESNSSSSTRSAVDMACSVLGVAQLDSVIIASPPIEDGVNLSLEHLQPYWEEL
ENLVQSKKIVAIGTSDLDKTQLEQLYQWAQVKPNSNQVNLASCCVMPPDLTAFAKQFDIQLLTHNDPKELLSEAS
FQEALQESIPDIQAHEWVPLWLLRYSVIVKSRGIIKSKGYILQAKRRGS

FIGURE 801

AGACACCTCTGCCCTCACC**ATG**AGCCTCTGGCAGCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCGACAGGCAGCT
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGGAGAGTCGAAATCTCTGGGGCC
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCGAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT
GCGAACCCCACGGTGCGGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA
CAACATCACCTATTGGATCCAAAACTACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCTTTGCCCGCGC
CTTCGCACTGTGGAGCGCGGTGACGCCGCTCACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA
GTTTGGTGTCGCGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCCTTTCCTCC
TGGCCCCGGCATTCAGGGAGACGCCCATTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC
AACTCGGTTTGGAAACGCAGATGGCGCGGCCTGCCACTTCCCCTTCATCTTCGAGGGCCGCTCCTACTCTGCCTG
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGCAGTACCACGGCCAACTACGACACCGACGACCGGTTTGG
CTTCTGCCCCAGCGAGAGACTCTACACCCGGGACGGCAATGCTGATGGGAAACCCTGCCAGTTTCCATTCATCTT
CCAAGGCCAATCCTACTCCGCCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCGACCCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG
GGAGCTGTGCGTCTTCCCCTTCACTTTCCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG
GCGCCTCTGGTGCGCTACCACCTCGAACTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCCGGACCAAGGATACAG
TTTGTTCCTCGTGGCGGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCCTCAGTGCCGGAGGCGCTCAT
GTACCCTATGTACCGCTTCACTGAGGGGCCCCCCTTGCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG
TCCTCGCCCTGAACCTGAGCCACGGCCTCCAACCACCACCACACCGCAGCCCACGGCTCCCCCGACGGTCTGCCC
CACCGGACCCCCCACTGTCCACCCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCCTCAGCTGGCCCCAC
AGGTCCCCCCACTGCTGGCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA
CATCTTCGACGCCATCGCGGAGATTGGGAACCAGCTGTATTTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA
GGGCAGGGGGAGCCGGCCGCAGGGCCCCTTCCTTATCGCCGACAAGTGGCCCGCGCTGCCCCGCAAGCTGGACTC
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTTCTCTGGGCGCCAGGTGTGGGTGTACACAGGCGCGTC
GGTGCTGGGCCCGAGGCGTCTGGACAAGCTGGGCCTGGGAGCCGACGTGGCCCAGGTGACCGGGGCCCTCCGGAG
TGGCAGGGGGAAGATGCTGCTGTTCAGCGGGCGGCGCCTCTGGAGGTTCGACGTGAAGGCGCAGATGGTGGATCC
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCCGGGGTGCCTTTGGACACGCACGACGTCTTCCAGTACCGAGA
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT
GGGCTACGTGACCTATGACATCCTGCAGTGCCCTGAGGAC**TAG**GCTCCCGTCCTGCTTTGCAGTGCCATGTAAA
TCCCCACTGGGACCAACCCTGGGGAAGGAGCCAGTTTGCCGGATACAAACTGGTATTCTGTTCTGGAGGAAAGGG
AGGAGTGGAGGTGGGCTGGGCCCTCTCTTCTCACCTTTGTTTTTTGTTGGAGTGTTTCTAATAAACTTGGATTCT
CTAACCTTT

FIGURE 802

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEEYLYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYPFDGKDGLLAHAFPPGPGIQGDAHFDDDELWSLGKGVVVPTRFGNA
DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYS
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA
EIGNQLYLFKDGKYWRFSEGRGSRPQGPFLIADKWPALPRKLDSVFEEPLSKKLFFFSGRQVWVYTGASVLGPRR
LDKLGLGADVAQVTGALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVGYVTYDILQCPED

FIGURE 803

GCGGTGGTGGACACGTCGAGCCGGGTAGAAGTGGAGGGGCCGTTCGAAGAGTCGTGAGGGGGTGACGGGTTAAGA
TTCGGAGAGAGAGGTGCTAGTGGCTGGACTTGACCTGGAAAGAATCTTCTGCTGACTCTCAACTTTTCCTGGAAA
AA**ATG**GATCATTCCCACCATATGGGGATGAGCTATATGGACTCCAACAGTACCATGCAACCTTCTCACCATCACC
CAACCACTTCAGCCTCACACTCCCATGGTGGAGGAGACAGCAGCATGATGATGATGCCTATGACCTTCTACTTTG
GCTTTAAGAATGTGGAACTACTGTTTTCCGGTTTGGTGATCAATACAGCTGGAGAAATGGCTGGAGCTTTTGTGG
CAGTGTTTTTACTAGCAATGTTCTATGAAGGACTCAAGATAGCCCGAGAGAGCCTGCTGCGTAAGTCACAAGTCA
GCATTCGCTACAATTCCATGCCTGTCCCAGGACCAAATGGAACCATCCTTATGGAGACACACAAAACTGTTGGGC
AACAGATGCTGAGCTTTCCTCACCTCCTGCAAACAGTGCTGCACATCATCCAGGTGGTCATAAGCTACTTCCTCA
TGCTCATCTTCATGACCTACAACGGGTACCTCTGCATTGCAGTAGCAGCAGGGGCCGGTACAGGATACTTCCTCT
TCAGCTGGAAGAAGGCAGTGGTAGTGGATATCACAGAGCATTGCCAT**TGA**CATCAAACTCTATGGCGTGGCCTTA
TCGATTGCAGTGGGAAGTTGTTGAAGACTTGAAGACGTGATTCCTGCTCCAATCATCCCTTCTTGCTCCTCTTTG
TGCACGTACACACACACACACACACACACACACACACACACACCCCTGCTCAACAGAGGTTTAGTTTACAGTCTC
TGAACTAAAGTAGTAACCTCCCAAATTGTTTTTTCTAATAAGCTGAGATTCCCATTTCTCTTAAGGAGAAGCCAC
CCATGAGATGTCTTTTCCTTCTCCATCATCTTAGAGCCAAGTTATATGTTCTTGTCTAATCCATGTAGCTTTTTG
TTCAATGACTTGATCATCTGCTTCCTTTTTGAATTTTTAACAGATAGTAAGTAAATTTGGTGGTTTTTTCCCCTG
GGTCAGTGATGGAAAGGGGTTAACTTCAGCCAGGATTGATGGCAGCTGAGGGAAATTCTTGCCCAACTAAACCCA
GAACTCAAACTTAACATTAGAAAATAAGGTCCAGGGCCGGACACAGTGGCCCATGCCTGTAATCCCAGCACTTTG
GGGGGCCAAGGCAGGCTGGATCACCTGAGGACAGGAGTTCGAGACCAGTCTGGCCAACATGGGGAAACCCCGTCT
CTACTAAAAATACAAAAATTAGCCGGGCATGGTGGTGGGCGCCTGTAATCCCAGCTACTCAGAAGGCTGAGGCAG
GAGAATCACTTGAACCTAGGAGGCGGAGGTTGCAGTGAGCCAAGATGGCGCCATTGCACTCCAGCCTGGGTGACA
AGAGTGAAACTCCATCTCAAAAAAAAAGAAAGAAGGTCCAGCTTTTGGATTCAATGAGTGGGAAATACATTGTG
CCTTTCTCTAGATGTGATACGTTATACCAAAATCTTTGTAGTGTGCAGAGCGGTGGTTTGAGACTAAATACAGGC
TTAGAACTTGCAGAGTGTGTATTCTTGGATGGCTGATGCATCGACTTGCATTCCCACTTAACACTTTGATTAGCC
ATGAACTTGCCAATCAAAAAATGACAATCAATTTGAGAAAATAGAAATAGATATTTTTAAATAAAACCATTCACA
GTTT

FIGURE 804

MDHSHHMGMSYMDSNSTMQPSHHHPTTSASHSHGGGDSSMMMMPMTFYFGFKNVELLFSGLVINTAGEMAGAFVA
VFLLAMFYEGLKIARESLLRKSQVSIRYNSMPVPGPNGTILMETHKTVGQQMLSFPHLLQTVLHIIQVVISYFLM
LIFMTYNGYLCIAVAAGAGTGYFLFSWKKAVVVDITEHCH

FIGURE 805

GACAGCCTCGCTTGGACGCAGAGCCCGGCCCGACGCCGCC**ATG**AGCGCCGCGCTCTTCAGCCTGGACGGCCCGGC
GCGCGGCGCGCCCTGGCCTGCGGAGCCTGCGCCCTTCTACGAACCGGGCCGGGCGGGCAAGCCGGGCCGCGGGGC
CGAGCCAGGGGCCCTAGGCGAGCCAGGCGCCGCCGCCCCCGCCATGTACGACGACGAGAGCGCCATCGACTTCAG
CGCCTACATCGACTCCATGGCCGCCGTGCCCACCCTGGAGCTGTGCCACGACGAGCTCTTCGCCGACCTCTTCAA
CAGCAATCACAAGGCGGGCGGCGCGGGGCCCCTGGAGCTTCTTCCCGGCGGCCCCGCGCGCCCCTTGGGCCCGGG
CCCTGCCGCTCCCCGCCTGCTCAAGCGCGAGCCCGACTGGGGCGACGGCGACGCGCCCGGCTCGCTGTTGCCCGC
GCAGGTGGGCCCGTGCGCACAGACCGTGGTGAGCTTGGCGGCCGCAGGGCAGCCCACCCCGCCCACGTCGCCGGA
GCCGCCGCGCAGCAGCCCCAGGCAGACCCCCGCGCCCGGCCCCGCCCGGGAGAAGAGCGCCGGCAAGAGGGGCCC
GGACCGCGGCAGCCCCGAGTACCGGCAGCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGGC
CAAGCGGCGCAACCAGGAGATGCAGCAGAAGTTGGTGGAGCTGTCGGCTGAGAACGAGAAGCTGCACCAGCGCGT
GGAGCAGCTCACGCGGGACCTGGCCGGCCTCCGGCAGTTCTTCAAGCAGCTGCCCAGCCCGCCCTTCCTGCCGGC
CGCCGGGACAGCAGACTGCCGG**TAA**CGCGCGGCCGGGGCGGGAGAGACTCAGCAACGACCCATACCTCAGACCCG
ACGGCCCGGAGCGGAGCGCGCCCTGCCCTGGCGCAGCCAGAGCCGCCGGGTGCCCGCTGCAGTTTCTTGGGACAT
AGGAGCGCAAAGAAGCTACAGCCTGGACTTACCACCACTAAACTGCGAGAGAAGCTAAACGTGTTTATTTTCCCT
TAAATTATTTTTGTAATGGTAGCTTTTTCTACATCTTACTCCTGTTGATGCAGCTAAGGTACATTTGTAAAAAGA
AAAAAAACCAGACTTTTCAGACAAACCCTTTGTATTGTAGATAAGAGGAAAAGACTGAGCATGCTCACTTTTTTA
TATTAATTTTTACAGTATTTGTAAGAATAAAGCAGCATTTGAAATCGC

FIGURE 806

MSAALFSLDGPARGAPWPAEPAPFYEPGRAGKPGRGAEPGALGEPGAAAPAMYDDESAIDFSAYIDSMAAVPTLE
LCHDELFADLFNSNHKAGGAGPLELLPGGPARPLGPGPAAPRLLKREPDWGDGDAPGSLLPAQVGPCAQTVVSLA
AAGQPTPPTSPEPPRSSPRQTPAPGPAREKSAGKRGPDRGSPEYRQRRERNNIAVRKSRDKAKRRNQEMQQKLVE
LSAENEKLHQRVEQLTRDLAGLRQFFKQLPSPPFLPAAGTADCR

FIGURE 807

GTGGATATCCCCGAGTCACCGCGTCCCTCTCCTGCAGCTCCCGCGTCGCTGGGAGGAGCGAGGGAGCGAGCGGGA
AGGGGTCTAGCTGGCCTTTGCTCGGCCCTCCCCAGCGCCCGGCTTTGAACCCGCCCTGCACTGCTGTCTGGGCGG
GTCCGGGGACTCAGCACTCGACCCAAAGGTGCAGGCGCGCGAGCACAACCC**ATG**GCTGCGCTGGGCTGCGCGAGG
CTGAGGTGGGCGCTGCGAGGGGCCGGCCGTGGCCTCTGCCCCCACGGGGCCAGAGCCAAGGCCGCGATCCCTGCC
GCCCTCCCCTCGGACAAGGCCACCGGAGCTCCCGGAGCCGGGCCTGGTGTCCGGCGGCGGCAACGGAGCTTAGAG
GAGATTCCACGTCTAGGACAGCTGCGCTTCTTCTTTCAGCTGTTCGTTCAAGGCTATGCCCTGCAACTGCACCAG
TTACAGGTGCTTTACAAGGCCAAGTACGGTCCAATGTGGATGTCCTACTTAGGGCCTCAGATGCACGTGAACCTG
GCCAGTGCCCCGCTCTTGGAGCAAGTGATGCGGCAAGAGGGAAAGTACCCAGTACGGAACGACATGGAGCTATGG
AAGGAGCACCGGGACCAGCACGACCTGACCTATGGGCCGTTCACCACGGAAGGACACCACTGGTACCAGCTGCGC
CAGGCTCTGAACCAGCGGTTGCTGAAGCCAGCGGAAGCAGCGCTCTATACGGATGCTTTCAATGAGGTGATTGAT
GACTTTATGACTCGACTGGACCAGCTGCGGGCAGAGAGTGCTTCGGGGAACCAGGTGTCGGACATGGCTCAACTC
TTCTACTACTTTGCCTTGGAAGCTATTTGCTACATCCTGTTCGAGAAACGCATTGGCTGCCTGCAGCGATCCATC
CCCGAGGACACCGTGACCTTCGTCAGATCCATCGGGTTAATGTTCCAGAACTCACTCTATGCCACCTTCCTCCCC
AAGTGGACTCGCCCCGTGCTGCCTTTCTGGAAGCGATACCTGGATGGTTGGAATGCCATCTTTTCCTTTGGGAAG
AAGCTGATTGATGAGAAGCTCGAAGATATGGAGGCCCAACTGCAGGCAGCAGGGCCAGATGGCATCCAGGTGTCT
GGCTACCTGCACTTCTTACTGGCCAGTGGACAGCTCAGTCCTCGGGAGGCCATGGGCAGCCTGCCTGAGCTGCTC
ATGGCTGGAGTGGACACGACATCCAACACGCTGACATGGGCCCTGTACCACCTCTCAAAGGACCCTGAGATCCAG
GAGGCCTTGCACGAGGAAGTGGTGGGTGTGGTGCCAGCCGGGCAAGTGCCCCAGCACAAGGACTTTGCCCACATG
CCGTTGCTCAAAGCTGTGCTTAAGGAGACTCTGCGTCTCTACCCTGTGGTCCCCACAAACTCCCGGATCATAGAA
AAGGAAATTGAAGTTGATGGCTTCCTCTTCCCCAAGAACACCCAGTTTGTGTTCTGCCACTATGTGGTGTCCCGG
GACCCCACTGCCTTCTCTGAGCCTGAAAGCTTCCAGCCCCACCGCTGGCTGAGAAACAGCCAGCCTGCTACCCCC
AGGATCCAGCACCCATTTGGCTCTGTGCCCTTTGGCTATGGGGTCCGGGCCTGCCTGGGCCGCAGGATTGCAGAG
CTGGAGATGCAGCTACTCCTCGCAAGGCTGATCCAGAAGTACAAGGTGGTCCTGGCCCCGGAGACGGGGGAGTTG
AAGAGTGTGGCCCGCATTGTCCTGGTTCCCAATAAGAAAGTGGGCCTGCAGTTCCTGCAGAGACAGTGC**TGA**GCT
GAGTCTCCGCCTTGCTGGGGCTTGTCCTAGAGGCTCCAGCTCTGGCACAGTGGTTCCTGGCTGCTGCCATGTCTC
AGATGAGGAGGGAGAGAAGGAGGCCGCCAGACTCGAGAGGTGGGAGGAACTCCTTGCACACACCCTGAGCTTTTG
CCACTTCTATCATTTTTGAGCAACTCCCTCTCAGCTAAAAGGCCACCCCTTTATCGCATTGCTGTCCTTGGGTAG
AATATAAAATAAAGGGACTTTTATTTCTTATTGG

FIGURE 808

MAALGCARLRWALRGAGRGLCPHGARAKAAIPAALPSDKATGAPGAGPGVRRRQRSLEEIPRLGQLRFFFQLFVQ
GYALQLHQLQVLYKAKYGPMWMSYLGPQMHVNLASAPLLEQVMRQEGKYPVRNDMELWKEHRDQHDLTYGPFTTE
GHHWYQLRQALNQRLLKPAEAALYTDAFNEVIDDFMTRLDQLRAESASGNQVSDMAQLFYYFALEAICYILFEKR
IGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPKWTRPVLPFWKRYLDGWNAIFSFGKKLIDEKLEDMEAQLQAA
GPDGIQVSGYLHFLLASGQLSPREAMGSLPELLMAGVDTTSNTLTWALYHLSKDPEIQEALHEEVVGVVPAGQVP
QHKDFAHMPLLKAVLKETLRLYPVVPTNSRIIEKEIEVDGFLFPKNTQFVFCHYVVSRDPTAFSEPESFQPHRWL
RNSQPATPRIQHPFGSVPFGYGVRACLGRRIAELEMQLLLARLIQKYKVVLAPETGELKSVARIVLVPNKKVGLQ
FLQRQC

FIGURE 809

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TGCAGCTTCCTTCTCACCTTGAAGAATAATCCTAGAAAACTCACAAAATGTGTGATGCTTTTGTAGGTACCTGGA
AACTTGTCTCCAGTGAAAACTTTGATGATTATATGAAAGAAGTAGGAGTGGGCTTTGCCACCAGGAAAGTGGCTG
GCATGGCCAAACCTAACATGATCATCAGTGTGAATGGGGATGTGATCACCATTAAATCTGAAAGTACCTTTAAAA
ATACTGAGATTTCCTTCATACTGGGCCAGGAATTTGACGAAGTCACTGCAGATGACAGGAAAGTCAAGAGCACCA
TAACCTTAGATGGGGGTGTCCTGGTACATGTGCAGAAATGGGATGGAAAATCAACCACCATAAAGAGAAAACGAG
AGGATGATAAACTGGTGGTGGAATGCGTCATGAAAGGCGTCACTTCCACGAGAGTTTATGAGAGAGCATAAGCCA
AGGGACGTTGACCTGGACTGAAGTTCGCATTGAACTCTACAACATTCTGTGGGATATATTGTTCAAAAAGATATT
GTTGTTTTCCCTGATTTAGCAAGCAAGTAATTTTCTCCCAAGCTGATTTTATTCAATATGGTTACGTTGGTTAAA
TAACTTTTTTTAGATTTAG
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FIGURE 810

MCDAFVGTWKLVSSENFDDYMKEVGVGFATRKVAGMAKPNMIISVNGDVITIKSESTFKNTEISFILGQEFDEVT
ADDRKVKSTITLDGGVLVHVQKWDGKSTTIKRKREDDKLVVECVMKGVTSTRVYERA

FIGURE 811

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GTAAGGCCGTTTTCTTTTCCCATTCGCTCATCTGCCAGGAAAAGGGACTTGCCGTTGGCGCTTCGGCCTCTTGTT
CATTGAGAAAAAAGAGGAAATACTCCGCGTGCGCTTGTAGAAGGGGAGTCGTCTCCAGCTCCGAACCCCGGAGTG
TTCATCAGCGGGGAATCTGGCTCCGAATTCTCTTTTTTTCTCCCGCCGATTGCTCGGAAGTTGGTCTAAAGCAGA
GGTTGGAAAGAAAGGAAAAAAGTTTGCATCGAGACTGGATTTATTTGCACATCGCAGAAAGAAGAGAATCCAAGG
GAGAGGGGTTGGTGCAAAGCCGCGATCACGGAGTTCAGATGTGTTCTAAGCCTGCTGGAGTGACCACACTTCCAA
GACCTG**ATG**GAGGCCAGAGCTCAGAGTGGCAACGGGTCGCAGCCCTTGCTGCAGACGCCCCGTGACGGTGGCAGA
CAGCGTGGGGAGCCCGACCCCAGAGACGCCCTCACCCAGCAGGTACATGTCTTGTCTCTGGATCAGATCAGAGCC
ATCCGAAACACCAATGAGTACACAGAGGGGCCTACTGTCGTCCCAAGACCTGGGCTCAAGCCTGCTCCTCGCCCC
TCCACTCAGCACAAACACGAGAGACTCCACGGTCTGCCTGAGCACCGCCAGCCTCCTAGGCTCCAGCACTCGCAG
GTCCATTCTTCTGCACGAGCCCCTCTGTCCAGATCCATAAGCACGGTCAGCTCAGGGTCGCGGAGCAGTACGAGG
ACAAGTACCAGCAGCAGCTCCTCTGAACAGAGACTGCTAGGATCATCCTTCTCCTCCGGGCCTGTTGCTGATGGC
ATAATCCGGGTGCAACCCAAATCTGAGCTCAAGCCAGGTGAGCTTAAGCCACTGAGCAAGGAAGATTTGGGCCTG
CACGCCTACAGGTGTGAGGACTGTGGCAAGTGCAAATGTAAGGAGTGCACCTACCCAAGGCCTCTGCCATCAGAC
TGGATCTGCGACAAGCAGTGCCTTTGCTCGGCCCAGAACGTGATTGACTATGGGACTTGTGTATGCTGTGTGAAA
GGTCTCTTCTATCACTGTTCTAATGATGATGAGGACAACTGTGCTGACAACCCATGTTCTTGCAGCCAGTCTCAC
TGTTGTACACGATGGTCAGCCATGGGTGTCATGTCCCTCTTTTTGCCTTGTTTATGGTGTTACCTTCCAGCCAAG
GGTTGCCTTAAATTGTGCCAGGGGTGTTATGACCGGGTTAACAGGCCTGGTTGCCGCTGTAAAAACTCAAACACA
GTTTGCTGCAAAGTTCCCACTGTCCCCCCTAGGAACTTTGAAAAACCAACA**TAG**CATCATTAATCAGGAATATTA
CAGTAATGAGGATTTTTTCTTTCTTTTTTTAATACACATATGCAACCAACTAAACAGTTATAATCTTGGCACTGT
TAATAGAAAGGTGGGATAGTCTTTGCTGTTTGCGGTGAAATGCTTTTTGTCCATGTGCCGTTTTAACTGATATGC
TTGTTAGAACTCAGCTAATGGAGCTCAAAGTATGAGATACAGAACTTGGTGACCCATGTATTGCATAAGCTAAAG
CAACACAGACACTCCTAGGCAAAGTTTTTGTTTGTGAATAGTACTTGCAAAACTTGTAAATTAGCAGATGACTTT
TTTCCATTGTTTTCTCCAGAGAGAATGTGCTATATTTTTGTATATACAATAATATTTGCAACTGTGAAAAACAAG
TTGTGCCATACTACATGGCACAGACACAAAATATTATACTAATATGTTGTACATTCGGAAGAATGTGAATCAATC
AGTATGTTTTTAGATTGTATTTTGCCTTACAGAAAGCCTTTATTGTAAGACTCTGATTTCCCTTTGGACTTCATG
TATATTGTACAGTTACAGTAAAATTCAACCTTTATTTTCTAATTTTTTCAACATATTGTTTAGTGTAAAGAATAT
TTATTTGAAGTTTTATTATTTTATAAAAAAGAATATTTATTTTAAGAGGCATCTTACAAATTTTGCCCCTTTTAT
GAGGATGTGATAGTTGCTGCAAATGAGGGGTTACAGATGCATATGTCCAATATAAAATAGAAAATATATTAACGT
TTGAAATTAAAAAAAAAAAAAAAAAAA
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FIGURE 812

MEARAQSGNGSQPLLQTPRDGGRQRGEPDPRDALTQQVHVLSLDQIRAIRNTNEYTEGPTVVPRPGLKPAPRPST
QHKHERLHGLPEHRQPPRLQHSQVHSSARAPLSRSISTVSSGSRSSTRTSTSSSSSEQRLLGSSFSSGPVADGII
RVQPKSELKPGELKPLSKEDLGLHAYRCEDCGKCKCKECTYPRPLPSDWICDKQCLCSAQNVIDYGTCVCCVKGL
FYHCSNDDEDNCADNPCSCSQSHCCTRWSAMGVMSLFLPCLWCYLPAKGCLKLCQGCYDRVNRPGCRCKNSNTVC
CKVPTVPPRNFEKPT

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FIGURE 813

GGAGGTCCAGAGATCCTGAGAGCCCGAGCGCCCAGCGCCGCGCCGGGAGAGTTGAGAATT**ATG**GCTGCAGGAAAA
TTTGCAAGCCTTCCCAGAAACATGCCGGTGAATCACCAGTTCCCCCTGGCCTCATCCATGGACCTTCTGAGCAGC
AGGTCCCCTCTCGCTGAGCATCGCCCAGATGCCTATCAAGATGTGTCTATACATGGCACCCTTCCACGGAAGAAA
AAAGGTCCTCCTCCCATAAGGTCCTGTGATGACTTCAGTCACATGGGCACCCTCCCCCACTCCAAATCCCCACGG
CAGAACTCGCCTGTGACCCAGGATGGCATCCAGGAGAGCCCATGGCAGGACCGGCACGGCGAAACCTTCACCTTC
AGGGATCCACATCTTCTGGACCCAACTGTGGAATATGTGAAGTTCTCCAAGGAGAGGCACATCATGGACAGGACC
CCCGAGAAACTGAAGAAGGAGCTGGAGGAGGAGCTGCTCCTGAGCAGCGAGGACCTGCGCAGCCATGCCTGGTAC
CACGGCCGCATCCCCCGACAGGTGTCTGAAAACCTTGTGCAGCGAGATGGTGACTTCCTAGTTCGTGACTCTCTG
TCCAGCCCTGGGAACTTTGTCCTGACCTGTCAGTGGAAGAACCTCGCTCAGCACTTCAAAATCAACCGGACAGTT
CTGCGACTCAGCGAGGCCTACAGCCGCGTGCAGTACCAGTTCGAGATGGAGAGCTTCGACTCCATCCCCGGCCTG
GTGCGCTGCTACGTGGGCAACCGCCGGCCCATCTCCCAGCAGAGTGGCGCCATCATCTTCCAGCCCATCAACAGG
ACGGTGCCTCTGCGGTGCCTGGAGGAGCATTATGGCACCTCCCCAGGCCAGGCCCGGGAGGGCAGCCTCACCAAG
GGAAGGCCGGATGTGGCCAAGAGGCTGAGCCTCACCATGGGTGGCGTCCAGGCCCGAGAGCAGAATTTGCCCAGG
GGAAACCTCCTCAGAAACAAAGAAAAGAGTGGTAGCCAGCCCGCCTGCCTGGATCACATGCAGGACAGAAGAGCC
TTGTCCCTCAAAGCCCACCAGTCAGAGAGCTACCTGCCGATTGGCTGCAAGCTGCCACCTCAGTCCTCGGGTGTG
GACACAAGCCCCTGCCCAAACTCACCTGTGTTCAGGACGGGAAGCGAGCCTGCCCTGAGCCCAGCAGTGGTTCGG
AGGGTCTCCTCAGACGCCAGGGCTGGGGAGGCGCTGAGGGGATCAGACAGTCAACTGTGCCCTAAGCCCCCGCCT
AAGCCCTGCAAGGTGCCGTTCCTCAAGGTTCCCTCGTCTCCCTCTGCCTGGCTCAACTCAGAGGCCAACTACTGT
GAACTGAACCCAGCGTTTGCCACAGGCTGCGGCAGGGGAGCAAAGCTACCCTCATGTGCCCAGGGAAGCCACACA
GAACTGCTCACAGCCAAGCAGAATGAGGCGCCAGGTCCCCGGAACTCTGGCGTCAACTACTTGATCCTTGATGAT
GATGACAGGGAAAGACCTTGGGAACCTGCGGCAGCTCAGATGGAGAAGGGGCAGTGGGACAAGGGCGAGTTTGTG
ACGCCCCTCCTGGAGACTGTCTCCTCCTTCAGGCCCAACGAGTTTGAGTCAAAGTTCCTTCCCCCTGAGAATAAG
CCCCTGGAAACAGCAATGTTGAAACGTGCAAAAGAACTGTTCACCAACAACGACCCCAAGGTCATCGCCCAGCAC
GTACTGAGCATGGACTGCAGGGTTGCTAGGATACTTGGAGTCTCTGAAGAGATGAGGAGGAACATGGGGGTGAGC
TCAGGCCTGGAACTCATTACCTTGCCTCACGGACACCAGCTGCGCCTGGACATAATTGAAAGACACAACACAATG
GCCATCGGCATTGCAGTGGACATTCTGGGATGCACGGGCACTTTGGAGGACCGAGCGGCCACTCTGAGTAAGATC
ATCCAGGTGGCGGTGGAACTGAAGGATTCCATGGGGGGACCTCTATTCCTTCTCAGCTCTCATGAAAGCCCTGGAA
ATGCCACAGATCACAAGGTTAGAAAAGACGTGGACTGCTCTGCGGCACCAGTACACCCAAACTGCCATTCTCTAT
GAGAAACAGCTGAAGCCCTTCAGCAAACTCCTGCATGAAGGCAGAGAGTCCACATGTGTTCCCCCAAACAATGTA
TCAGTCCCACTGCTGATGCCGCTTGTGACGTTAATGGAGCGCCAGGCTGTGACTTTTGAAGGAACCGACATGTGG
GAAAAAAACGACCAGAGCTGTGAAATCATGCTGAACCATTTGGCAACAGCGCGATTCATGGCCGAGGCTGCAGAC
AGCTACCGGATGAATGCTGAGAGGATCCTGGCAGGTTTTCAACCAGATGAAGAAATGAATGAAATCTGCAAGACT
GAATTTCAAATGCGATTGCTATGGGGCAGCAAAGGTGCACAAGTCAATCAGACAGAGAGATATGAGAAATTCAAC
CAGATTTTAACTGCCCTCTCGCGTAAATTGGAACCTCCTCCTGTAAAGCAGGCAGAGCTT**TGA**TAACTCTCCAGA
GAACCTTTAGAATATCTTTTCAAGTTTCCCCAGCTTCATCTTTGGGAAAGCTTACTGTTTTGATAAAGTAATAA
TGTGCAAATCTGACAATATACAAGCTTTTAGTATCCACAGGATATTAAACGTGTAAATTGCACAGAGCACACTTA
TTTATGAATTGTCTAAAGTTACTACTGATTTTAAAATGAATAATTTATTATTAAGGTAACTACTGCTAATGTTGA
TCAGCAAATTTAAGAGAAGACCTAGCTATGTTGGCTGGTTGCTTTCTATTATCATGGTATTTGACCATTTTAGTT
TTAATTCCATGTCAGATAAGTGTAAATAGAAGAGTTTAAAAGCATGAAACATTTCAGAAGGTATCAGTTATATGA
TATTCTTTAAACAAATATGAAAAATGTAAATACTCATGAATGAAAATACATCTTTTTGTGAAAAAAAAAAAAAAA
AAAA

FIGURE 814

MAAGKFASLPRNMPVNHQFPLASSMDLLSSRSPLAEHRPDAYQDVSIHGTLPRKKKGPPPIRSCDDFSHMGTLPH
SKSPRQNSPVTQDGIQESPWQDRHGETFTFRDPHLLDPTVEYVKFSKERHIMDRTPEKLKKELEEELLLSSEDLR
SHAWYHGRIPRQVSENLVQRDGDFLVRDSLSSPGNFVLTCQWKNLAQHFKINRTVLRLSEAYSRVQYQFEMESFD
SIPGLVRCYVGNRRPISQQSGAIIFQPINRTVPLRCLEEHYGTSPGQAREGSLTKGRPDVAKRLSLTMGGVQARE
QNLPRGNLLRNKEKSGSQPACLDHMQDRRALSLKAHQSESYLPIGCKLPPQSSGVDTSPCPNSPVFRTGSEPALS
PAVVRRVSSDARAGEALRGSDSQLCPKPPPKPCKVPFLKVPSSPSAWLNSEANYCELNPAFATGCGRGAKLPSCA
QGSHTELLTAKQNEAPGPRNSGVNYLILDDDDRERPWEPAAAQMEKGQWDKGEFVTPLLETVSSFRPNEFESKFL
PPENKPLETAMLKRAKELFTNNDPKVIAQHVLSMDCRVARILGVSEEMRRNMGVSSGLELITLPHGHQLRLDIIE
RHNTMAIGIAVDILGCTGTLEDRAATLSKIIQVAVELKDSMGDLYSFSALMKALEMPQITRLEKTWTALRHQYTQ
TAILYEKQLKPFSKLLHEGRESTCVPPNNVSVPLLMPLVTLMERQAVTFEGTDMWEKNDQSCEIMLNHLATARFM
AEAADSYRMNAERILAGFQPDEEMNEICKTEFQMRLLWGSKGAQVNQTERYEKFNQILTALSRKLEPPPVKQAEL

FIGURE 815

CCTCCCCTCGCCCGGCGCGGTCCCGTCCGCCTCTCGCTCGCCTCCCGCCTCCCCTCGGTCTTCCGAGGCGCCCGG
GCTCCCGGCGCGGCGGCGGAGGGGGCGGGCAGGCCGGCGGGCGGTGATGTGGCAGGACTCTTTATGCGCTGCGGC
AGGATACGCGCTCGGCGCTGGGACGCGACTGCGCTCAGTTCTCTCCTCTCGGAAGCTGCAGCCATGATGGAAGTT
TGAGAGTTGAGCCGCTGTGAGGCGAGGCCGGGCTCAGGCGAGGGAGATGAGAGACGGCGGCGGCCGCGGCCCGGA
GCCCCTCTCAGCGCCTGTGAGCAGCCGCGGGGGCAGCGCCCTCGGGGAGCCGGCCGGCCTGCGGCGGCGGCAGCG
GCGGCGTTTCTCGCCTCCTCTTCGTCTTTTCTAACCGTGCAGCCTCTTCCTCGGCTTCTCCTGAAAGGGAAGGTG
GAAGCCGTGGGCTCGGGCGGGAGCCGGCTGAGGCGCGGCGGCGGCGGCGGCGGCACCTCCCGCTCCTGGAGCGGG
GGGGAGAAGCGGCGGCGGCGGCGGCCGCGGCGGCTGCAGCTCCAGGGAGGGGGTCTGAGTCGCCTGTCACCATTT
CCAGGGCTGGGAACGCCGGAGAGTTGGTCTCTCCCCTTCTACTGCCTCCAACACGGCGGCGGCGGCGGCGGCACA
TCCAGGGACCCGGGCCGGTTTTAAACCTCCCGTCCGCCGCCGCCGCACCCCCCGTGGCCCGGGCTCCGGAGGCCG
CCGGCGGAGGCAGCCGTTCGGAGGATTATTCGTCTTCTCCCCATTCCGCTGCCGCCGCTGCCAGGCCTCTGGCTG
CTGAGGAGAAGCAGGCCCAGTCGCTGCAACCATCCAGCAGCCGCCGCAGCAGCCATTACCCGGCTGCGGTCCAGA
GCCAAGCGGCGGCAGAGCGAGGGGCATCAGCTACCGCCAAGTCCAGAGCCATTTCCATCCTGCAGAAGAAGCCCC
GCCACCAGCAGCTTCTGCCATCTCTCTCCTCCTTTTTCTTCAGCCACAGGCTCCCAGAC**ATG**ACAGCCATCATCA
AAGAGATCGTTAGCAGAAACAAAAGGAGATATCAAGAGGATGGATTCGACTTAGACTTGACCTATATTTATCCAA
ACATTATTGCTATGGGATTTCCTGCAGAAAGACTTGAAGGCGTATACAGGAACAATATTGATGATGTAGTAAGGT
TTTTGGATTCAAAGCATAAAAACCATTACAAGATATACAATCTTTGTGCTGAAAGACATTATGACACCGCCAAAT
TTAATTGCAGAGTTGCACAATATCCTTTTGAAGACCATAACCCACCACAGCTAGAACTTATCAAACCCTTTTGTG
AAGATCTTGACCAATGGCTAAGTGAAGATGACAATCATGTTGCAGCAATTCACTGTAAAGCTGGAAAGGGACGAA
CTGGTGTAATGATATGTGCATATTTATTACATCGGGGCAAATTTTTAAAGGCACAAGAGGCCCTAGATTTCTATG
GGGAAGTAAGGACCAGAGACAAAAAGGGAGTAACTATTCCCAGTCAGAGGCGCTATGTGTATTATTATAGCTACC
TGTTAAAGAATCATCTGGATTATAGACCAGTGGCACTGTTGTTTCACAAGATGATGTTTGAAACTATTCCAATGT
TCAGTGGCGGAACTTGCAATCCTCAGTTTGTGGTCTGCCAGCTAAAGGTGAAGATATATTCCTCCAATTCAGGAC
CCACACGACGGGAAGACAAGTTCATGTACTTTGAGTTCCCTCAGCCGTTACCTGTGTGTGGTGATATCAAAGTAG
AGTTCTTCCACAAACAGAACAAGATGCTAAAAAAGGACAAAATGTTTCACTTTTGGGTAAATACATTCTTCATAC
CAGGACCAGAGGAAACCTCAGAAAAAGTAGAAATGGAAGTCTATGTGATCAAGAAATCGATAGCATTTGCAGTA
TAGAGCGTGCAGATAATGACAAGGAATATCTAGTACTTACTTTAACAAAAAATGATCTTGACAAAGCAAATAAAG
ACAAAGCCAACCGATACTTTTCTCCAAATTTTAAGGTGAAGCTGTACTTCACAAAAACAGTAGAGGAGCCGTCAA
ATCCAGAGGCTAGCAGTTCAACTTCTGTAACACCAGATGTTAGTGACAATGAACCTGATCATTATAGATATTCTG
ACACCACTGACTCTGATCCAGAGAATGAACCTTTTGATGAAGATCAGCATACACAAATTACAAAAGTC**TGA**ATTT
TTTTTTATCAAGAGGGATAAAACACCATGAAAATAAACTTGAATAAACTGAAAATGGACCTTTTTTTTTTAATG
GCAATAGGACATTGTGTCAGATTACCAGTTATAGGAACAATTCTCTTTTCCTGACCAATCTTGTTTTACCCTATA
CATCCACAGGGTTTTGACACTTGTTGTCCAGTTGAAAAAAGGTTGTGTAGCTGTGTCATGTATATACCTTTTTGT
GTCAAAAGGACATTTAAAATTCAATTAGGATTAATAAAGATGGCACTTTCCCGTTTTATTCCAGTTTTATAAAAA
GTGGAGACAGACTGATGTGTATACGTAGGAATTTTTTCCTTTGTGTTCTGTCACCAACTGAAGTGGCTAAAGAG
CTTTGTGATATACTGGTTCACATCCTACCCCTTTGCACTTGTGGCAACAGATAAGTTTGCAGTTGGCTAAGAGAG
GTTTCCGAAAGGTTTTGCTACCATTCTAATGCATGTATTCGGGTTAGGGCAATGGAGGGGAATGCTCAGAAAGGA
AATAATTTTATGCTGGACTCTGGACCATATACCATCTCCAGCTATTTACACACACCTTTCTTTAGCATGCTACAG
TTATTAATCTGGACATTCGAGGAATTGGCCGCTGTCACTGCTTGTTGTTTGCGCATTTTTTTTTAAAGCATATTG
GTGCTAGAAAAGGCAGCTAAAGGAAGTGAATCTGTATTGGGGTACAGGAATGAACCTTCTGCAACATCTTAAGAT
CCACAAATGAAGGGATATAAAAATAATGTCATAGGTAAGAAACACAGCAACAATGACTTAACCATATAAATGTGG
AGGCTATCAACAAAGAATGGGCTTGAAACATTATAAAAATTGACAATGATTTATTAAATATGTTTTCTCAATTGT
AAAAAAAAAA

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FIGURE 816

MTAIIKEIVSRNKRRYQEDGFDLDLTYIYPNIIAMGFPAERLEGVYRNNIDDVVRFLDSKHKNHYKIYNLCAERH
YDTAKFNCRVAQYPFEDHNPPQLELIKPFCEDLDQWLSEDDNHVAAIHCKAGKGRTGVMICAYLLHRGKFLKAQE
ALDFYGEVRTRDKKGVTIPSQRRYVYYYSYLLKNHLDYRPVALLFHKMMFETIPMFSGGTCNPQFVVCQLKVKIY
SSNSGPTRREDKFMYFEFPQPLPVCGDIKVEFFHKQNKMLKKDKMFHFWVNTFFIPGPEETSEKVENGSLCDQEI
DSICSIERADNDKEYLVLTLTKNDLDKANKDKANRYFSPNFKVKLYFTKTVEEPSNPEASSSTSVTPDVSDNEPD
HYRYSDTTDSDPENEPFDEDQHTQITKV

FIGURE 817

AGCGGCCGCCGCCGCCACAGCTGCAGTCAGCACCGTCACCCCAGCAGCATCCGCGCGCCTGCACCGCGCGTGCGG
CCCGCCCCGGCCTGACCCCGCCGCCGAACCCGGCGCCAGCCATGGAGCCCGAAGCCCCCCGTCGCCGCCACACCC
ATCAGCGCGGCTACCTGCTGACACGGAACCCTCACCTCAACAAGGACTTGGCCTTTACCCTGGAAGAGAGACAGC
AATTGAACATTCATGGATTGTTGCCACCTTCCTTCAACAGTCAGGAGATCCAGGTTCTTAGAGTAGTAAAAAATT
TCGAGCATCTGAACTCTGACTTTGACAGGTATCTTCTCTTAATGGATCTCCAAGATAGAAATGAAAAACTCTTTT
ATAGAGTGCTGACATCTGACATTGAGAAATTCATGCCTATTGTTTATACTCCCACTGTGGGTCTGGCTTGCCAAC
AATATAGTTTGGTGTTTCGGAAACCAAGAGGTCTCTTTATTACTATCCACGATCGAGGGCATATTGCTTCAGTTC
TCAATGCATGGCCAGAAGATGTCATCAAGGCCATTGTGGTGACTGATGGAGAGCGTATTCTTGGCTTGGGAGACC
TTGGCTGTAATGGAATGGGCATCCCTGTGGGTAAATTGGCTCTATATACAGCTTGCGGAGGGATGAATCCTCAAG
AATGTCTGCCTGTCATTCTGGATGTGGGAACCGAAAATGAGGAGTTACTTAAAGATCCACTCTACATTGGACTAC
GGCAGAGAAGAGTAAGAGGTTCTGAATATGATGATTTTTGGACGAATTCATGGAGGCAGTTTCTTCCAAGTATG
GCATGAATTGCCTTATTCAGTTTGAAGATTTTGCCAATGTGAATGCATTCGTCTCCTGAACAAGTATCGAAACC
AGTATTGCACATTCAATGATGATATTCAAGGAACAGCATCTGTTGCAGTTGCAGGTCTCCTTGCAGCTCTTCGAA
TAACCAAGAACAAACTGTCTGATCAAACAATACTATTCCAAGGAGCTGGGGAGGCTGCCCTAGGGATTGCACACC
TGATTGTGATGGCCTTGGAAAAAGAAGGTTTACCAAAAGAGAAAGCCATCAAAAAGATATGGCTGGTTGATTCAA
AAGGATTAATAGTTAAGGGACGTGCTTCCTTAACACAAGAGAAAGAGAAGTTTGCCCATGAACATGAAGAAATGA
AGAACCTAGAAGCCATTGTTCAAGAAATAAAACCAACTGCCCTCATAGGAGTTGCTGCAATTGGTGGTGCATTCT
CAGAACAAATTCTCAAAGATATGGCTGCCTTCAATGAACGGCCTATTATTTTTGCTTTGAGTAATCCAACTAGCA
AAGCAGAATGTTCTGCAGAGCAGTGCTACAAAATAACCAAGGGACGTGCAATTTTTGCCAGTGGCAGTCCTTTTG
ATCCAGTCACTCTTCCAAATGGACAGACCCTATATCCTGGCCAAGGCAACAATTCCTATGTGTTCCCTGGAGTTG
CTCTTGGTGTTGTGGCGTGTGGATTGAGGCAGATCACAGATAATATTTTCCTCACTACTGCTGAGGTTATAGCTC
AGCAAGTGTCAGATAAACACTTGGAAGAGGGTCGGCTTTATCCTCCTTTGAATACCATTAGAGATGTTTCTCTGA
AAATTGCAGAAAAGATTGTGAAAGATGCATACCAAGAAAAGACAGCCACAGTTTATCCTGAACCGCAAAACAAAG
AAGCATTTGTCCGCTCCCAGATGTATAGTACTGATTATGACCAGATTCTACCTGATTGTTATTCTTGGCCTGAAG
AGGTGCAGAAAATACAGACCAAAGTTGACCAG**TAG**GATAATAGCAAACATTTCTAACTCTATTAATGAGGTCTTT
AAACCTTTCATAATTTTTAAAGGTTGGAATCTTTTATAATGATTCATAAGACACTTAGATTAAGATTTTACTTTA
ACAGTCTAAAAATTGATAGAAGAATATCGATATAAATTGGGATAAACATCACATGAGACAATTTTGCTTCACTTT
GCCTTCTGGTTATTTATGGTTTCTGTCTGAATTATTCTGCCTACGTTCTCTTTAAAAGCTGTTGTACGTACTACG
GAGAAACTCATCATTTTTATACAGGACACTAATGGGAAGACCAAAATTACTAATAAATTGACATAACCAACATTA
AAACTCATAATTATTTTGTTGACCATTTTGTTAAAATCTACTTTTCAAAAAAAAAAAAAGCTAGAAATGAATCTAG
GCGTAGGTGAACTTTTGCTAAGCAGAAATAACACTACTTTGTTGCCTAGAGAAAGATAACTTCTCAAGTATTTTT
ATTCCAGTCCTAGATCATATATGTTCTTTTGTGCAACGGAATTCTAACAGTTCTAAGAGAAAGATCACTGCTGTT
TACAGCGCCTTGTGCAGCCTTAGATTTTAATATTCTTTTGTCATTGTTACATCTCATAGAGTAAAGCTCTTATTA
CCTTGATCCTGAGTCAGAAATCCCACCTGAAATCACCTTTTTCCCCCTTGATCAAACATCCCATCCTTCAGCTA
CCATACTGTTGCTACAGGGATTTTGTGGACTGTGGCCCCTGTCCCGAGGTTGGCACCTTCAGTTCAGCACAGCCT
GAGCAGTGAGAAGGTCTGAAAGGAGAGTATATAGTTAAGATCCTTGAGAAAGGGCTGCCTGAGGAACTGACCTCT
TAAAGATCTCAGGATCTTTAAGACAACAAGTTAGGTTCCTACTGGAGTTACCTGCCAGAATGGCCTCTTAATTAA
CTCAGGTAATGAAGAGCTAACTGTGTTATAATCATCTTGCTTTTGCCTGAATTTGGAGAAAGTATTATAATTAAG
TTCCCAGTATCAGAAATGTCCTTACATAAGATTAAAATATCTTGATGACTAATACCATTCTATGAGAAAGAGTAG
TTATATGCCCAGACTGTATTAATTTACTTTAGAAACTAATGTTTGAAGTAATGGAAAAAATTTTAAATTATAAAG
CTAAGGTGCAATAACATTTGCTACTTATTTATAGAATTATTTGAAGAATTTTGTTTTTGAAGTAATGCTTTAAGG
AGTATAAGATATTCAAGATAAATTATACTATAAATGATTTTATTGAAAGTTGAAGGTTACACAAATTGTTTTAG
GTATGAGCAGAAGAGGTTAAGGTATTTCTAAAGGTAACATATAGTCAAGAGTTTCCTCAAAATAGTTATTTGGAG
AAGAATCAGAATGTCTGTGTATTTCTTGTCTGTTTCTATGTTGTCTTATAGCTCTGACTAAATGTGTTTACCTAT
GCAAAAGATTTATTAAAGCATAGAAAAGGTGAATGAATAACACCCTAAACCCCCCGAAGAGAAAAGAAATCCCG
AAGAGAGAGAGCAAACACACCTGAGAACATCCGCTGAGTAAGTAGCCCGCTAGGAGAAAAGAAAAGGGGGGGCC
CCCCCGACTAAGAGGGCCCCTTTCCGCCCCCGGGGAATTTATTT

FIGURE 818

RPPPPQLQSAPSPQQHPRACTARAARPGLTPPPNPAPAMEPEAPRRRHTHQRGYLLTRNPHLNKDLAFTLEERQQ
LNIHGLLPPSFNSQEIQVLRVVKNFEHLNSDFDRYLLLMDLQDRNEKLFYRVLTSDIEKFMPIVYTPTVGLACQQ
YSLVFRKPRGLFITIHDRGHIASVLNAWPEDVIKAIVVTDGERILGLGDLGCNGMGIPVGKLALYTACGGMNPQE
CLPVILDVGTENEELLKDPLYIGLRQRRVRGSEYDDFLDEFMEAVSSKYGMNCLIQFEDFANVNAFRLLNKYRNQ
YCTFNDDIQGTASVAVAGLLAALRITKNKLSDQTILFQGAGEAALGIAHLIVMALEKEGLPKEKAIKKIWLVDSK
GLIVKGRASLTQEKEKFAHEHEEMKNLEAIVQEIKPTALIGVAAIGGAFSEQILKDMAAFNERPIIFALSNPTSK
AECSAEQCYKITKGRAIFASGSPFDPVTLPNGQTLYPGQGNNSYVFPGVALGVVACGLRQITDNIFLTTAEVIAQ
QVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAYQEKTATVYPEPQNKEAFVRSQMYSTDYDQILPDCYSWPEE
VQKIQTKVDQ

FIGURE 819

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CCGCCGCCACAGCTGCAGTCAGCACCGTCACCCCAGCAGCATCCGCCGCCTGCACCGCGCGTGCGGCCCGCCCCG
GCCTGACCCCGCCGCCGAACCCGGCGCCAGCCATGGAGCCCGAAGCCCCCCGTCGCCGCCACACCCATCAGCGCG
GCTACCTGCTGACACGGAACCCTCACCTCAACAAGGACTTGGCCTTTACCCTGGAAGAGAGACAGCAATTGAACA
TTCATGGATTGTTGCCACCTTCCTTCAACAGTCAGGAGATCCAGGTTCTTAGAGTAGTAAAAAATTTCGAGCATC
TGAACTCTGACTTTGACAGGTATCTTCTCTTAATGGATCTCCAAGATAGAAATGAAAAACTCTTTTATAGAGTGC
TGACATCTGACATTGAGAAATTCATGCCTATTGTTTATACTCCCACTGTGGGTCTGGCTTGCCAACAATATAGTT
TGGTGTTTCGGAAGCCAAGAGGTCTCTTTATTACTATCCACGATCGAGGGCATATTGCTTCAGTTCTCAATGCAT
GGCCAGAAGATGTCATCAAGGCCATTGTGGTGACTGATGGAGAGCGTATTCTTGGCTTGGGAGACCTTGGCTGTA
ATGGAATGGGCATCCCTGTGGGTAAATTGGCTCTATATACAGCTTGCGGAGGGATGAATCCTCAAGAATGTCTGC
CTGTCATTCTGGATGTGGGAACCGAAAATGAGGAGTTACTTAAAGATCCACTCTACATTGGACTACGGCAGAGAA
GAGTAAGAGGTTCTGAATATGATGATTTTTTGGACGAATTCATGGAGGCAGTTTCTTCCAAGTATGGCATGAATT
GCCTTATTCAGTTTGAAGATTTTGCCAATGTGAATGCATTTCGTCTCCTGAACAAGTATCGAAACCAGTATTGCA
CATTCAATGATGATATTCAAGGAACAGCATCTGTTGCAGTTGCAGGTCTCCTTGCAGCTCTTCGAATAACCAAGA
ACAAACTGTCTGATCAAACAATACTATTCCAAGGAGCTGGAGAGGCTGCCCTAGGGATTGCACACCTGATTGTGA
TGGCCTTGGAAAAAGAAGGTTTACCAAAAGAGAAAGCCATCAAAAAGATATGGCTGGTTGATTCAAAAGGATTAA
TAGTTAAGGGACGTGCTTCCTTAACACAAGAGAAAGAGAAGTTTGCCCATGAACATGAAGAAATGAAGAACCTAG
AAGCCATTGTTCAAGAAATAAAACCAACTGCCCTCATAGGAGTTGCTGCAATTGGTGGTGCATTCTCAGAACAAA
TTCTCAAAGATATGGCTGCCTTCAATGAACGGCCTATTATTTTTGCTTTGAGTAATCCAACTAGCAAAGCAGAAT
GTTCTGCAGAGCAGTGCTACAAAATAACCAAGGGACGTGCAATTTTTGCCAGTGGCAGTCCTTTTGATCCAGTCA
CTCTTCCAAATGGACAGACCCTATATCCTGGCCAAGGCAACAATTCCTACGTGTTCCCTGGAGTTGCTCTTGGTG
TTGTGGCGTGTGGATTGAGGCAGATCACAGATAATATTTTCCTCACTACTGCTGAGGTTATAGCTCAGCAAGTGT
CAGATAAACACTTGGAAGAGGGTCGGCTTTATCCTCCTTTGAATACCATTAGAGATGTTTCTCTGAAAATTGCAG
AAAAGATTGTGAAAGATGCATACCAAGAAAAGACAGCCACAGTTTATCCTGAACCGCAAAACAAAGAAGCATTTG
TCCGCTCCCAGATGTATAGTACTGATTATGACCAGATTCTACCTGATTGTTATTCTTGGCCTGAAGAGGTGCAGA
AAATACAGACCAAAGTTGACCAGTAGGATAATAGCAAACATTTCTAACTCTATTAATGAGGTCTTTAAACCTTTC
ATAATTTTTAAAGGTTGGAATCTTTTATAATGATTCATAAGACACTTAGATTAAGATTTTACTTTAACAGTCTAA
AAATTGATAGAAGAATATCGATATAAATTGGGATAAACATCACATGAGACAATTTTGCTTCACTTTGCCTTCTGG
TTATTTATGGTTTCTGTCTGAATTATTCTGCCTACGTTCTCTTTAAAAGCTGTTGTACGTACTACGGAGAAACTC
ATCATTTTTATACAGGACACTAATGGGAAGACCAAAATTACTAATAAATTGAAATAACCAACATTAAAACTCATA
ATTATTTTGTTGACCATTTTGTTAAAATCTACTTTTC
```

FIGURE 820

MEPEAPRRRHTHQRGYLLTRNPHLNKDLAFTLEERQQLNIHGLLPPSFNSQEIQVLRVVKNFEHLNSDFDRYLLL
MDLQDRNEKLFYRVLTSDIEKFMPIVYTPTVGLACQQYSLVFRKPRGLFITIHDRGHIASVLNAWPEDVIKAIVV
TDGERILGLGDLGCNGMGIPVGKLALYTACGGMNPQECLPVILDVGTENEELLKDPLYIGLRQRRVRGSEYDDFL
DEFMEAVSSKYGMNCLIQFEDFANVNAFRLLNKYRNQYCTFNDDIQGTASVAVAGLLAALRITKNKLSDQTILFQ
GAGEAALGIAHLIVMALEKEGLPKEKAIKKIWLVDSKGLIVKGRASLTQEKEKFAHEHEEMKNLEAIVQEIKPTA
LIGVAAIGGAFSEQILKDMAAFNERPIIFALSNPTSKAECSAEQCYKITKGRAIFASGSPFDPVTLPNGQTLYPG
QGNNSYVFPGVALGVVACGLRQITDNIFLTTAEVIAQQVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAYQEK
TATVYPEPQNKEAFVRSQMYSTDYDQILPDCYSWPEEVQKIQTKVDQ

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FIGURE 821

CCTTCAGCATAAAAGCTGATCCACAAACAAGAGGAGCACCAGACCTCCTCTTGGCTTCGAG**ATG**GCTTCGCCACA
CCAAGAGCCCAAACCTGGAGACCTGATTGAGATTTTCCGCCTTGGCTATGAGCACTGGGCCCTGTATATAGGAGA
TGGCTACGTGATCCATCTGGCTCCTCCAAGTGAGTACCCCGGGGCTGGCTCCTCCAGTGTCTTCTCAGTCCTGAG
CAACAGTGCAGAGGTGAAACGGGGGCGCCTGGAAGATGTGGTGGGAGGCTGTTGCTATCGGGTCAACAACAGCTT
GGACCATGAGTACCAACCACGGCCCGTGGAGGTGATCATCAGTTCTGCGAAGGAGATGGTTGGTCAGAAGATGAA
GTACAGTATTGTGAGCAGGAACTGTGAGCACTTTGTCGCCCAGCTGAGATATGGCAAGTCCCGCTGTAAACAGGT
GGAAAAGGCCAAGGTTGAAGTCGGTGTGGCCACGGCGCTTGGAATCCTGGTTGTTGCTGGATGCTCTTTTGCGAT
TAGGAGATACCAAAAAAAAGCAACAGCC**TGA**AGCAGCCACAAAATCCTGTGTTAGAAGCAGCTGTGGGGGTCCCA
GTGGAGATGAGCCTCCCCCATGCCTCCAGCAGCCTGACCCTCGTGCCCTGTCTCAGGCGTTCTCTAGATCCTTTC
CTCTGTTTCCCTCTCTCGCTGGCAAAAGTATGATCTAATTGAAACAAGACTGAAGGATCAATAAACAGCCATCTG
CCCCTTCAAAAAAAAAAA

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FIGURE 822

MASPHQEPKPGDLIEIFRLGYEHWALYIGDGYVIHLAPPSEYPGAGSSSVFSVLSNSAEVKRGRLEDVVGGCCYR
VNNSLDHEYQPRPVEVIISSAKEMVGQKMKYSIVSRNCEHFVAQLRYGKSRCKQVEKAKVEVGVATALGILVVAG
CSFAIRRYQKKATA

FIGURE 823A

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AGGGGGCGGCGCTCCCGGCCCATCCCTTAGCCCCGCGGCGGCCGTGTGGGCCGGAGGCTGCCTGCACCGCGTCAG
GGAGGCCGGCCTAGAAACCCTCCCTCCCAGAAGAAAGCCGATCCCAGTTCAGGTGGGGTCTTCCTCGGTTGCGTA
CCTGGCTGGAGCCGAGCTGGTGGGCGGCCGGCAGCCGGCGTTTCTGGTGATGACAGCCCCGAAATGAAAGCAGCG
CGGCCGCCGCCTCCGAGGGCTGCAGGGAGATCAGCGTCCAGCAAATAAGAAGCAAGTCCTGGACCCGGAGGAGGA
GGAGCGGCCGAGCATCTCTCTCTGCTCCGCCGTGTCCTTTAGATGAGCACTCCCGGCCGGAGCCGGAGGTGGATC
CGCAGAGCTGCCTCTGGGCGCCTGACCCCGCGCTGACATCACAACCTGTGACAGGCGCATCACGCCCGGTACCTG
CTCCCGGCCGCTGCCCGTCCTCCCAGCCTCTTTGTATGCCGCAGAC**ATG**GCCAGCCAGCAGGATTCGGGCTTCTT
TGAGATCAGTATCAAATATTTACTGAAATCCTGGAGTAATACTTCTCCCGTTGGCAACGGTTACATCAAGCCTCC
GGTTCCACCTGCTTCTGGCACGCACAGGGAGAAAGGGCCGCCAACCATGCTACCCATCAATGTGGACCCAGACAG
TAAACCAGGAGAATATGTCCTCAAAAGTTTATTTGTCAACTTCACCACTCAGGCTGAACGCAAGATTCGTATCAT
TATGGCAGAGCCCCTGGAAAAGCCATTGACGAAATCTCTGCAACGTGGAGAAGACCCCCAATTTGATCAGGTCAT
CAGCTCAATGAGCTCCCTTTCTGAGTACTGCCTGCCTTCCATTCTACGTACATTATTTGACTGGTATAAAAGGCA
AAATGGCATTGAGGATGAATCACATGAATACAGACCAAGAACAAGCAATAAATCAAAAAGCGATGAACAACAGCG
AGATTATTTAATGGAAAGACGGGACCTCGCCATTGATTTTATTTTTTCTTTAGTATTAATAGAAGTTTTGAAACA
GATTCCACTTCATCCTGTAATAGACAGTTTAATACATGATGTTATTAACTTGGCTTTCAAGCACTTTAAATACAA
AGAAGGGTACCTTGGTCCCAACACTGGCAATATGCATATTGTGGCAGACCTGTATGCAGAAGTCATTGGAGTGTT
GGCACAAGCCAAATTCCCTGCTGTAAAGAAGAAATTTATGGCGGAGCTAAAAGAATTACGGCACAAAGAGCAGAA
CCCATATGTGGTTCAAAGCATTATCAGCTTAATAATGGGCATGAAATTCTTTCGAATTAAGATGTATCCAGTGGA
GGATTTTGAGGCCTCTCTTCAGTTTATGCAGGAATGTGCACATTACTTCCTCGAGGTCAAAGACAAAGATATCAA
GCATGCCTTGGCTGGGCTTTTTGTTGAAATACTTGTTCCAGTTGCTGCTGCTGTTAAAAATGAAGTAAATGTTCC
CTGCCTTAGAAATTTTGTGGAAAGCCTGTATGACACCACGCTGGAACTTTCTTCTCGAAAGAAGCATTCCTTGGC
CTTGTACCCCCTGGTGACCTGTTTGCTCTGTGTCAGTCAGAAGCAGCTGTTCCTGAACAGGTGGCACATTTTCCT
CAACAACTGCTTGTCCAACCTTAAAAACAAAGATCCCAAGATGGCTCGAGTTGCACTGGAATCTCTCTACAGATT
ACTTTGGGTTTACATGATTCGAATTAAATGTGAAAGCAACACAGCTACTCAGAGCCGACTTATAACCATCATCAC
AACACTTTTCCCCAAAGGGTCCCGCGGTGTGGTACCAAGGGACATGCCTCTGAACATCTTTGTGAAAATCATCCA
GTTCATTGCCCAGGAACGTTTAGATTTTGCAATGAAAGAAATCATTTTCGATTTTCTTTGTGTGGGAAAACCAGC
AAAAGCATTCAGTCTCAACCCAGAGAGAATGAACATTGGTTTACGGGCATTCTTGGTCATAGCTGATAGCTTGCA
GCAGAAAGATGGGGAACCTCCCATGCCGGTTACAGGAGCCGTTCTTCCTTCAGGAAACACGTTAAGAGTAAAGAA
AACATATTTGAGTAAAACACTAACTGAAGAGGAAGCCAAAATGATAGGCATGTCCTTATATTACTCTCAAGTACG
AAAAGCTGTAGACAACATTTTAAGGCACCTTGATAAAGAAGTAGGAAGGTGTATGATGCTGACTAATGTACAGAT
GTTAAACAAAGAACCGGAAGACATGATCACGGGTGAGAGAAAGCCAAAAATAGATCTTTTCAGGACCTGTGTTGC
TGCTATTCCTCGACTGCTTCCTGATGGGATGTCAAAACTTGAACTTATTGACTTACTGGCTAGGCTCTCTATTCA
TATGGATGATGAATTGCGACATATTGCACAAAATTCTCTTCAGGGTTTACTTGTTGACTTCTCAGATTGGAGGGA
AGATGTACTATTTGGCTTTACCAACTTCCTGCTCCGGGAAGTAAATGATATGCATCACACACTCCTTGATTCGTC
CCTGAAGTTGCTGCTGCAGCTGCTCACCCAGTGGAAACTAGTCATCCAGACACAAGGAAAAGTCTATGAACAAGC
CAACAAAATCAGAAATTCAGAGCTCATCGCAAATGGCTCCAGTCACAGAATTCAGTCGGAACGAGGTCCCCACTG
CAGTGTACTCCACGCTGTAGAAGGTTTTGCTCTGGTTTTACTCTGCAGTTTCCAGGTGGCCACACGCAAACTGTC
CGTTTTAATACTCAAGGAAATTCGAGCGTTGTTTATTGCCCTGGGGCAGCCTGAGGATGACGACAGGCCGATGAT
TGATGTCATGGATCAGCTAAGTTCTTCCATTCTAGAAAGTTTTATTCATGTAGCAGTTTCGGATTCAGCAACATT
ACCACTCACCCACAATGTGGATCTGCAGTGGTTGGTGGAATGGAACGCAGTCCTGGTCAATAGCCATTATGATGT
GAAAAGCCCTTCCCATGTCTGGATATTTGCACAGTCTGTCAAAGACCCCTGGGTCCTCTGCCTCTTCAGCTTCCT
CCGGCAGGAGAACTTACCCAAGCACTGCCCCACAGCCCTCAGCTATGCCTGGCCTTATGCCTTCACTCGGCTCCA
GTCGGTGATGCCTCTGGTGGACCCAAATAGCCCAATTAATGCCAAGAAAACCAGCACTGCCGGCAGCGGAGACAA
CTATGTTACTTTGTGGAGAAATTACCTAATTCTTTGTTTTGGAGTTGCAAAACCCAGTATTATGAGCCCAGGACA
CTTAAGAGCTTCCACTCCAGAAATAATGGCGACCACACCTGATGGTACAGTGAGCTACGATAACAAGGCCATAGG
CACCCCATCGGTGGGAGTTCTGTTAAAGCAGTTGGTGCCTTTGATGAGACTAGAGAGCATTGAGATCACAGAGTC
CTTAGTTTTAGGATTTGGAAGAACAAATTCCCTTGTTTTCAGAGAATTGGTAGAAGAACTTCATCCATTAATGAA
AGAAGCTCTGGAAAGAAGACCAGAGAACAAGAAACGCCGAGAACGGCGAGACTTGTTAAGGCTACAACTACTTCG
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FIGURE 823B

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AATTTTTGAACTTTTGGCTGATGCTGGTGTAATAAGTGACAGCACAAATGGAGCCCTAGAGCGGGATACTTTAGC
CCTGGGAGCTTTGTTCTTAGAATATGTGGACTTGACCCGCATGCTCCTAGAAGCTGAAAATGACAAAGAAGTTGA
AATTCTTAAAGATATCCGGGCACATTTTAGTGCAATGGTGGCCAACTTGATTCAGTGTGTTCCAGTTCACCACCG
AAGATTTCTCTTCCCCCAGCAAAGTCTGAGGCACCACCTTTTCATCTTATTCAGCCAGTGGGCAGGACCCTTCAG
CATTATGTTCACTCCTCTGGATCGTTACAGTGACAGAAATCATCAGATTACAAGATATCAGTATTGTGCATTAAA
AGCAATGTCAGCAGTACTGTGCTGTGGCCCTGTCTTTGACAATGTGGGCCTTTCCCCAGATGGCTACCTATATAA
ATGGCTTGACAACATTCTGGCTTGTCAAGATTTACGAGTTCATCAACTTGGCTGCGAAGTTGTTGTCTTGCTACT
GGAACTTAATCCTGACCAAATAAATCTTTTTAACTGGGCAATTGACCGATGCTACACAGGTTCCTACCAACTTGC
ATCTGGCTGCTTCAAAGCCATAGCAACTGTGTGTGGAAGCAGGAACTATCCCTTCGACATAGTGACATTGTTAAA
CCTTGTTCTATTCAAGGCCTCTGACACCAACAGAGAGATTTATGAAATCTCCATGCAGCTCATGCAGATCCTTGA
AGCAAAGCTTTTTGTATACTCAAAGAAAGTCGCTGAGCAAAGACCGGGAAGTATTCTCTATGGAACACACGGCCC
GCTGCCACCCCTCTACAGCGTGTCACTCGCCCTCTTGTCATGTGAGCTGGCCAGGATGTACCCTGAGCTCACACT
CCCCCTCTTCTCAGGTAAGCCAGCGATTCCCCACAACACACCCCAACGGGCGCCAGATCATGCTTACCTACCTGC
TGCCCTGGCTGCACAACATCGAGCTGGTGGACAGCAGGCTCCTCCTCCCGGGTCGAGCCCCAGCAGCCCAGAGGA
CGAAGTCAAGGACCGGGAAGGTGACGTGACTGCTTCTCACGGGCTGAGAGGAAATGGCTGGGGCTCTCCAGAAGC
CACGTCACTGGTCCTGAACAACCTCATGTACATGACGGCCAAGTATGGAGATGAAGTTCCTGGGCCAGAAATGGA
AAATGCTTGGAATGCTTTAGCCAACAATGAGAAATGGAGCAACAACCTGAGGATCACCTTGCAGTTCCTGATTAG
CCTCTGTGGGGTCAGCAGCGACACAGTTCTCCTACCCTATATTAAAAAAGTGGCAATATACTTGTGCCGTAACAA
CACCATTCAAACCATGGAAGAGCTTCTCTTTGAGCTGCAGCAGACAGAACCCGTGAACCCCATCGTCCAGCATTG
TGACAACCCGCCCTTCTACCGCTTCACGGCCAGTAGCAAGGCTTCCGCAGCAGCCTCAGGAACCACCTCTAGCAG
CAATACAGTGGTTGCTGGCCAGGAAAAATTTCCCAGATGCTGAGGAGAACAAGATATTGAAAGAATCTGATGAAAG
GTTTAGTAATGTCATCAGAGCCCACACTCGCCTCGAGTCAAGATACAGCAATAGCTCTGGAGGATCCTACGATGA
AGATAAAAATGATCCAATTTCTCCCTACACGGGCTGGTTGCTGACTATTACAGAGACCAAGCAGCCGCAGCCCTT
ACCGATGCCTTGTACTGGAGGATGCTGGGCCCCCCTGGTTGACTATCTCCCGGAGACCATCACTCCCCGGGGGCC
ACTCCACAGGTGCAATATTGCTGTAATTTTTATGACTGAAATGGTGGTGGATCACAGTGTACGAGAAGACTGGGC
GCTTCATCTACCATTATTACTTCATGCTGTCTTCTTAGGTTTAGACCACTACCGGCCTGAAGTCTTTGAACACAG
CAAAAAACTGCTTCTTCACCTCTTGATTGCCCTCTCTTGCAACAGCAATTTCCATTCCATTGCTTCCGTGCTCCT
GCAGACCCGAGAGATGGGTGAAGCTAAGACTCTAACCGTGCAGCCAGCCTACCAACCTGAATATCTCTATACAGG
TGGCTTTGACTTCCTGAGAGAGGACCAGTCATCCCCGGTGCCTGACTCAGGGCTTAGTTCAAGCTCCACCTCCTC
TAGCATCAGTCTGGGAGGCAGCAGTGGAAACCTCCCACAGATGACCCAGGAGGTAGAAGATGTGGACACAGCTGC
TGAAACAGATGAGAAGGCAAACAAGCTCATTGAGTTTCTCACGACCAGGGCATTTGGTCCACTTTGGTGCCATGA
AGACATCACACCTAAAAATCAAAATTCAAAGAGTGCTGAACAGCTCACTAATTTTCTACGTCACGTTGTATCTGT
ATTTAAAGATTCCAAATCAGGCTTCCATCTGGAGCACCAGTTGAGTGAAGTTGCATTGCAGACAGCCCTCGCAAG
CTCTTCAAGGCACTATGCTGGTCGGTCCTTCCAGATATTCCGGGCCCTCAAGCAACCTCTGTCAGCACATGCCTT
ATCTGACCTTCTCTCAAGATTGGTGGAGGTGATAGGAGAACATGGAGATGAGATTCAGGGTTATGTAATGGAAGC
GCTCCTAACCTTGGAGGCGGCTGTGGATAACTTGTCTGACTGCTTGAAGAACAGTGACCTCCTAACTGTATTGTC
CCGCTCTTCCTCACCAGATTTAAGCTCCAGCAGTAAACTAACAGCAAGCAGAAAGAGCACAGGACAACTAAACAT
GAACCCGGGAACCACCAGCGGCAACACCGCAACTGCCGAACGGAGCCGGCATCAACGAAGCTTCTCTGTGCCCAA
GAAGTTTGGTGTCATCGACCGATCCTCTGACCCACCTCGAAGTGCCACACTGGACAGAATTCAGGCTTGTACCCA
ACAAGGCCTCTCCTCAAAAACCAGAAGCTCATCCTCCTTGAAGGACAGTCTCACGGACCCATCCCACATAAACCA
TCCCACCAACCTGCTGGCCACCATATTCTGGGTCACAGTGGCCTTGATGGAGTCTGATTTTGAGTTTGAATACTT
AATGGCCTTAAGGCTGTTGAGCAGACTACTGGCACATATGCCACTCGATAAGGCTGAGAACCGAGAAAGCTTGA
GAAACTCCAGGCACAGCTGAAGTGGGCCGACTTCTCCGGGCTGCAGCAGCTGCTGCTGAAAGGATTCACATCCCT
CACCACCACAGACCTGACCCTGCAGCTCTTCAGTCTGCTGACACCAGTGTCCAAAATATCCATGGTGGATGCATC
CCACGCTATTGGGTTTCCACTGAATGTCTTGTGTCTCCTGCCTCAGCTGATTCAGCATTTTGAAAATCCCAATCA
GTTCTGTAAGGATATAGCCGAAAGGATTGCTCAGGTTTGTTTAGAAGAGAAGAACCCCAAACTTTCAAATCTTGC
ACATGTCATGACTCTTTATAAAACGCACAGCTACACGAGGGACTGTGCCACGTGGGTCAATGTGGTCTGTCGATA
CCTTCATGAAGCATATGCTGACATTACCTTGAATATGGTTACCTACCTGGCAGAGCTGCTGGAGAAGGGCCTCCC
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FIGURE 823C

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TAGTGTGCAGCAGCCCCTGCTCCAGGTGATCTACAGTCTTCTCAGCTACATGGACCTTTCTGTCGTTCCTGTCAA
ACAGTTCAATGTGGAAGTTCTGAAGACAATTGAAAAATATGTGCAAAGTGTTCACTGGAGAGAAGCTCTGAATAT
CTTGAAGCTGGTAGTTTCTCGGTCAGCCAGCCTTGTTTTACCTTCATACCAGCACAGTGACCTCTCAAAAATAGA
AATACATCGAGTGTGGACTAGTGCTTCCAAGGAATTACCTGGGAAAACCCTGGACTTCCACTTCGATATTTCGGA
GACTCCAATCATCGGGAGGCGGTATGATGAGCTGCAGAATTCTTCTGGGCGTGATGGGAAGCCCAGGGCCATGGC
CGTCACCCGGAGCACATCTTCCACTTCCTCAGGCTCCAACTCCAACGTCCTTGTTCCAGTGAGCTGGAAAAGGCC
CCAGTATTCTCAGAAGAGAACAAAAGAGAAGTTGGTACATGTCCTTTCTCTGTGTGGCCAAGAAGTAGGATTGAG
CAAAAATCCATCAGTGATTTTTTCATCGTGTGGGGATCTGGATCTGCTTGAGCACCAGACAAGCTTGGTATCTTC
TGAGGACGGTGCCCGAGAGCAGGAGAACATGGATGACACAAACAGCGAGCAGCAGTTTAGAGTCTTCAGAGACTT
CGACTTCCTAGATGTGGAGCTGGAGGATGGAGAGGGTGAGAGTATGGACAATTTCAACTGGGGAGTGCGCAGACG
TTCTCTGGACAGCCTGGATAAGTGTGATATGCAGATTCTGGAGGAGCGCCAACTGTCAGGAAGCACTCCTAGCCT
GAATAAAATGCACCATGAGGACTCCGATGAATCATCCGAGGAGGAGGACCTCACAGCCAGCCAGATCCTGGAGCA
CTCAGACCTAATCATGACTCTCTCCCCCTCTGAAGAGACGAATCCCATGGAGCTGCTCACCACAGCCTGTGACTC
GACCCCTGCAGAACCTCATTCCTTTAACACCAGAATGTCCAGCTTTGATGCTTCCTTGCCTGATATGAATAATCT
GCAGATTTCTGAGGGTTCAAAGGCTGAAGCTGTTCGTGAGGAGGAGGACACCACCGTGCATGAGGATGATCTTTC
TAGTTCCATCAATGAACTCCCAGCAGCTTTTGAATGCAGCGACAGCTTTAGCCTGGACATGACTGAGGGGGAAGA
AAAAGGCAATCGGGCACTGGACCAGTTTACCCTGGCGAGCTTTGGAGAAGGTGACAGGGGAGTCTCTCCCCCTCC
CTCGCCCTTCTTCTCAGCCATCCTTGCCGCCTTTCAGCCCGCAGCCTGTGACGATGCCGAGGAGGCCTGGCGCAG
CCACATCAACCAGCTTATGTGTGACTCAGATGGCTCCTGTGCTGTGTATACATTTCATGTGTTCTCCTCCTTGTT
TAAGAATATTCAGAAAAGGTTCTGCTTCCTAACCTGTGATGCAGCCAGTTACCTTGGAGATAACCTCCGGGGAAT
CGGATCCAAATTTGTCAGCTCTTCCCAGATGCTCACCTCCTGCTCTGAATGTCCTACACTTTTTGTGGATGCCGA
GACTCTCCTTTCATGTGGACTTCTGGACAAGCTCAAGTTCAGTGTGTTAGAACTGCAAGAATATTTGGATACCTA
CAACAACAGGAAAGAGGCCACACTCTCTTGGCTTGCAAATTGTAAGGCAACATTTGCAGGGGGATCAAGAGATGG
AGTAATTACCTGTCAACCAGGGGACTCCGAAGAAAGCAATTGGAACTGTGTCAGAGATTATATAAGCTACACTT
CCAGCTGCTATTGCTTTTTCAGTCCTACTGTAAGCTCATCGGCCAGGTGCACGAAGTTAGCTCCATGCCAGAGCT
GCTGAATATGTCCAGGGAACTGAGTGACCTAAAGAAACACCTGAAGGAAGCCAGTGCAGTCATTGCAGCTGACCC
TCTCTATTCAGACGGCGCGTGGTCCGAGCCCACCTTCACGTCCACTGAAGCAGCCATCCAGTCCATGCTGGAGTG
CCTGAAGAACAACGAACTCGGCAAAGCTTTGCGGCAGATCAGGGAGTGCAGAAGTCTGTGGCCCAATGACATCTT
TGGAAGCAGTTCTGATGATGAGGTCCAGACACTACTGAATATTTATTTCCGTCACCAAACTCTGGGACAGACGGG
TACTTATGCCCTGGTGGGGTCTAACCAGAGCCTGACCGAGATCTGCACCAAGCTGATGGAGCTGAACATGGAGAT
CCGGGACATGATCCGCAGGGCCCAGAGTTACCGAGTCCTCACTACTTTTCTTCCAGACTCCAGTGTTTCTGGCAC
TAGTCTCTGACAGGAGCCTCCTGTCCCCACTGGGTTCCAAACTGCAGTGCTGCCATGCTGGGGCAACGTCATTCA
GTGTCTTCTCGGCCTTCAAAAGGCTTGGACAGACTGTTCTCCCTCTTGTTACCTGTAGGGCTTTTTCTAAAGAGG
ATGGCAGAACTTCCAACGTGTAGCAATACTATAAGAACCAAGGTAGCTTAGAACGTCCTGGACAGACTCCACTCA
TCATGCTGTGTGGCACAAATGTGTTACATTTGACCGAGCATATGCAACTCGCTACTGAAGAAGTGACTTCCGTTG
CATACCAAAGCCGACTACACTGAACAGTACCTTCCTTTCTAGAAACAATTTTAGATTGGCAAAAGTGCAATGTTT
TCTTCACTCAAAAAATTTTATATTCTCAAACATGTATATTCTTTCCCTGTCTTGTTCCATTTTCTTTTCTTTTTT
CTTTTTTCTTTTTCCTTTCTTTCGTGGGCTGAGAAAGGGGCAGGCAAAATGAAGCTGGCCACTGAAAACTGTAAG
ATGGTCAAAAGCTGACAGCCTGTGTATGTGAAAAGGGAATTGTAAATGGACTGCAATGTAATGTACACTGTAATT
TGAATACAATTACTGTATCTAAAAGGAGCTGCTATGAAGTACCTTTCTTATGTTGCTAGGCTACTGTTTCTGAAA
GCCCTGGATCTCTTTGCACCAAAAATGGTCCAGATAGACTCTTTTAAGGATCTTGGCTGCTTTTTACTAGAAGG
TTGCTTTTATGAGCATATTTATACTGCTGAAGGATGAGTGTTAATTTTAATTAACTTTGCCGTTTTGTAGAGAAA
ACTATTCACAAGATAAATTCCAAGTCTTTTCACCTGTCAGGCATGCATATTTTAATATCTGTTTGGATAGTCAGA
AGTAGAATCATAAAGGTAAAATATGAGTTGTTACTTTGTTTCTTCGATGTCATATTTTATGTGTAATATATATGT
AAAGGGCCATTCTTAAGTTCTCTCCTTAAACTTAATGCTGTCAAGTGTTAGATGTGTGCATGTGAACTTGTTGCA
CTGCAGAAACATATTCAGAGTTTATCTATGTAACTTATTCACTCTGTAAATACATTTAAAGTTTTTGTGATGTAA
GCTTAATTGATATTCTGTTCAGAACTTTCTTTAGACTAAAAAAAAAAAAAAAAGACAAA
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FIGURE 824

MASQQDSGFFEISIKYLLKSWSNTSPVGNGYIKPPVPPASGTHREKGPPTMLPINVDPDSKPGEYVLKSLFVNFT
TQAERKIRIIMAEPLEKPLTKSLQRGEDPQFDQVISSMSSLSEYCLPSILRTLFDWYKRQNGIEDESHEYRPRTS
NKSKSDEQQRDYLMERRDLAIDFIFSLVLIEVLKQIPLHPVIDSLIHDVINLAFKHFKYKEGYLGPNTGNMHIVA
DLYAEVIGVLAQAKFPAVKKKFMAELKELRHKEQNPYVVQSIISLIMGMKFFRIKMYPVEDFEASLQFMQECAHY
FLEVKDKDIKHALAGLFVEILVPVAAAVKNEVNVPCLRNFVESLYDTTLELSSRKKHSLALYPLVTCLLCVSQKQ
LFLNRWHIFLNNCLSNLKNKDPKMARVALESLYRLLWVYMIRIKCESNTATQSRLITIITTLFPKGSRGVVPRDM
PLNIFVKIIQFIAQERLDFAMKEIIFDFLCVGKPAKAFSLNPERMNIGLRAFLVIADSLQQKDGEPPMPVTGAVL
PSGNTLRVKKTYLSKTLTEEEAKMIGMSLYYSQVRKAVDNILRHLDKEVGRCMMLTNVQMLNKEPEDMITGERKP
KIDLFRTCVAAIPRLLPDGMSKLELIDLLARLSIHMDDELRHIAQNSLQGLLVDFSDWREDVLFGFTNFLLREVN
DMHHTLLDSSLKLLLQLLTQWKLVIQTQGKVYEQANKIRNSELIANGSSHRIQSERGPHCSVLHAVEGFALVLLC
SFQVATRKLSVLILKEIRALFIALGQPEDDDRPMIDVMDQLSSSILESFIHVAVSDSATLPLTHNVDLQWLVEWN
AVLVNSHYDVKSPSHVWIFAQSVKDPWVLCLFSFLRQENLPKHCPTALSYAWPYAFTRLQSVMPLVDPNSPINAK
KTSTAGSGDNYVTLWRNYLILCFGVAKPSIMSPGHLRASTPEIMATTPDGTVSYDNKAIGTPSVGVLLKQLVPLM
RLESIEITESLVLGFGRTNSLVFRELVEELHPLMKEALERRPENKKRRERRDLLRLQLLRIFELLADAGVISDST
NGALERDTLALGALFLEYVDLTRMLLEAENDKEVEILKDIRAHFSAMVANLIQCVPVHHRRFLFPQQSLRHHLFI
LFSQWAGPFSIMFTPLDRYSDRNHQITRYQYCALKAMSAVLCCGPVFDNVGLSPDGYLYKWLDNILACQDLRVHQ
LGCEVVVLLLELNPDQINLFNWAIDRCYTGSYQLASGCFKAIATVCGSRNYPFDIVTLLNLVLFKASDTNREIYE
ISMQLMQILEAKLFVYSKKVAEQRPGSILYGTHGPLPPLYSVSLALLSCELARMYPELTLPLFSGKPAIPHNTPQ
RAPDHAYLPAALAAQHRAGGQQAPPPGSSPSSPEDEVKDREGDVTASHGLRGNGWGSPEATSLVLNNLMYMTAKY
GDEVPGPEMENAWNALANNEKWSNNLRITLQFLISLCGVSSDTVLLPYIKKVAIYLCRNNTIQTMEELLFELQQT
EPVNPIVQHCDNPPFYRFTASSKASAAASGTTSSSNTVVAGQENFPDAEENKILKESDERFSNVIRAHTRLESRY
SNSSGGSYDEDKNDPISPYTGWLLTITETKQPQPLPMPCTGGCWAPLVDYLPETITPRGPLHRCNIAVIFMTEMV
VDHSVREDWALHLPLLLHAVFLGLDHYRPEVFEHSKKLLLHLLIALSCNSNFHSIASVLLQTREMGEAKTLTVQP
AYQPEYLYTGGFDFLREDQSSPVPDSGLSSSSTSSSISLGGSSGNLPQMTQEVEDVDTAAETDEKANKLIEFLTT
RAFGPLWCHEDITPKNQNSKSAEQLTNFLRHVVSVFKDSKSGFHLEHQLSEVALQTALASSSRHYAGRSFQIFRA
LKQPLSAHALSDLLSRLVEVIGEHGDEIQGYVMEALLTLEAAVDNLSDCLKNSDLLTVLSRSSSPDLSSSSKLTA
SRKSTGQLNMNPGTTSGNTATAERSRHQRSFSVPKKFGVIDRSSDPPRSA

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FIGURE 825

GACGGCGAGACCCCGCCCCATCCCCGACTGCCTGAACCGCGCCAGGAGACGGACCGCAAGTCCAGCGTACCCACA
GACGACTCAGGCGGGAGACGAGCGGTGTC**ATG**GCCGCCGACAGTGACGATGGCGCAGTTTCAGCTCCCGCAGCTT
CCGACGGTGGTGTCAGCAAAAGCACAACATCTGGGGAGGAGCTAGTAGTCCAGGTTCCCGTAGTGGATGTGCAAA
GCAACAACTTCAAGGAGATGTGGCCATCCCTCCTGCTAGCCATAAAGACAGCTAATTTCGTGGCTGTGGACACGG
AGCTGAGTGGGCTTGGGGACAGGAAGAGTTTGCTGAACCAGTGCATTGAGGAACGTTACAAGGCCGTGTGTCATG
CTGCCAGGACCCGTTCTATCCTTTCCCTGGGCCTCGCCTGCTTCAAGCGGCAGCCAGACAAGGGTGAACATTCCT
ATCTGGCTCAAGTGTTCAATCTCACTCTGCTGTGCATGGAGGAGTATGTCATAGAACCAAAGTCTGTGCAGTTCC
TGATACAGCATGGCTTCAACTTCAACCAGCAGTATGCCCAAGGCATCCCCTACCATAAGGGCAATGACAAGGGTG
ATGAGAGCCAGAGCCAGTCAGTACGGACCCTATTCCTGGAGCTAATCCGAGCCCGCCGGCCTCTGGTGCTACACA
ATGGCCTTATAGACTTGGTGTTCCTGTACCAGAACTTCTATGCACACCTCCCTGAGAGTCTGGGAACCTTCACCG
CTGACCTGTGTGAGATGTTCCCAGCAGGCATTTATGACACCAAATATGCTGCTGAGTTTCGTGCCCGTTTCGTGG
CCTCCTACTTAGAATATGCCTTCCGGAAATGTGAACGGGAAAATGGGAAGCAGCGGGCAGCTGGCAGCCCACACC
TTACCCTGGAGTTCTGCAACTATCCTTCCAGCATGAGGGACCATATTGATTACCGCTGCTGCCTGCCCCCAGCAA
CCCACCGTCCTCATCCCACCAGCATCTGTGACAACTTCTCGGCTTATGGCTGGTGCCCCCTGGGACCACAGTGTC
CTCAGTCTCACGATATTGACCTTATCATTGACACTGATGAGGCTGCGGCAGAGGACAAGCGGCGACGGCGACGAC
GTAGGGAAAAACGGAAGAGGGCTTTATTGAACCTACCGGGGACACAGACCTCTGGGGAAGCTAAGGATGGTCCTC
CCAAGAAGCAGGTCTGTGGGGATAGCATCAAGCCTGAAGAAACCGAGCAGGAGGTGGCTGCCGATGAAACTAGGA
ACCTGCCTCACTCCAAGCAAGGCAACAAAAATGACTTAGAGATGGGGATTAAGGCAGCAAGGCCTGAAATAGCTG
ATAGAGCTACCTCAGAAGTGCCAGGGAGCCAAGCCAGTCCTAACCCAGTGCCTGGGGATGGATTGCACCGGGCTG
GTTTTGATGCCTTTATGACAGGTTATGTGATGGCCTATGTGGAAGTGAGCCAGGGACCGCAGCCCTGCAGCTCTG
GACCCTGGCTCCCTGAATGCCACAATAAGGTATATTTGAGTGGCAAAGCTGTACCCCTCACAGTGGCCAAGAGCC
AGTTCTCTCGTTCCTCCAAAGCCCACAATCAGAAGATGAAGCTCACTTGGGGCAGTAGC**TGA**TGCAACTTCCACC
TTGCTCTCAGGTGGAACAGAGGTATTTTGGGTCTCTCTAGCCTGAAATGTCATCCTCAACTGCTACTGAGTTTAG
GGGAGGGGGAATGTCTTGACAGACATCACTGCATTGCCCTGGACCGCCTCCTTTATCCCAGTGTTTGAGGTACAA
GTAAGAAGGCTGACCAGCACCTGTAACACTGACTTTATTTTTAAGTCTGAAAATGTCTTGGGAAAGTTTTAC

FIGURE 826

MAADSDDGAVSAPAASDGGVSKSTTSGEELVVQVPVVDVQSNNFKEMWPSLLLAIKTANFVAVDTELSGLGDRKS
LLNQCIEERYKAVCHAARTRSILSLGLACFKRQPDKGEHSYLAQVFNLTLLCMEEYVIEPKSVQFLIQHGFNFNQ
QYAQGIPYHKGNDKGDESQSQSVRTLFLELIRARRPLVLHNGLIDLVFLYQNFYAHLPESLGTFTADLCEMFPAG
IYDTKYAAEFRARFVASYLEYAFRKCERENGKQRAAGSPHLTLEFCNYPSSMRDHIDYRCCLPPATHRPHPTSIC
DNFSAYGWCPLGPQCPQSHDIDLIIDTDEAAAEDKRRRRRREKRKRALLNLPGTQTSGEAKDGPPKKQVCGDSI
KPEETEQEVAADETRNLPHSKQGNKNDLEMGIKAARPEIADRATSEVPGSQASPNPVPGDGLHRAGFDAFMTGYV
MAYVEVSQGPQPCSSGPWLPECHNKVYLSGKAVPLTVAKSQFSRSSKAHNQKMKLTWGSS

FIGURE 827A

TTTTTTTTTTTTTTTTACAGCTGTTCCTGCTGATTGCTTTTTAAGCTAGGCTCAAGTGTGGGGCCACGGAATCCTT
CAGGTGCCCTTCAAATCAGACATTACATTTCAGCTCTCAGGGCTAGAATGCTTCCCCCTCTTATCTTGGGCAGGT
CTTTGAAGAAGCCAGTTTAGCCTTGGTAATTTTGAATTTGGCCATAGTATACGGAGGAGAGCTAGGTAGCTATCA
AAACGCTTAGACAAACGTATGGTAAAATGCAGCCCAGCCTGAACCTCCGCAAAACCCCCAAACCTGGAGCAGCAA
GTGGGCAAAGGAGTGTGTGTTTGGGGCAGGGTACTGAGTCCCATATGTAATCAAGAGACCTGGAGGGCCCAAGGA
AGTCAGTGACACCCCCACAAGCTACATATCCTCCAATGGATTGTGGTGGTCATCTCCGGCTACCGAAGCCACCTT
GCTTATTCCCATAGGCTTACAAACATTATGATGCTTCACACGAGTTGTGGGTGAAGTGAAGGAATTGGAAAGTCC
CGGTCTAAGGCCCTGCAAAACTGCTGTCTGGTAAAAACAAGTGACTATGGCAAGGCCCTGAATGTACTACGTATA
GACTTAAGTCAGTATTTGTGCCTAACAGCAAAGCATGCCACAAGAGGCTCCTCAAAAGCCGGGTAATTGATGCCA
TTGTTTTCTTGACCTAGTTGAAGAGTCAAAGAAGAGAAGGTGATGCAGAAACTTCTTTCCAGTGAAGTGACAGAT
CCAAGCAAGGAACACCTGCCTGTGAGGGGAGCGGTAGGGGAGGGGGTAGATTCGGCAGCACTCGGGTAGTGGCAG
GGACCACATATTGTCGGTGTTAACCACTGTTATCACTGGCCCAGGTCGAGTGAGGACGAGTCATTTCCCCACTAA
GCACTTGGGGAGTGGCAGGGACCACATATTGTCAGTGTTAACCACTGTTATGACTGGCCCAGGTCGGGTGACGAC
GAGCCATTTCCGCACTATTGTCCCTTCTTCCTCACTGCACCCCCAGCCCTGCACCCTCAGCTCCAAATACACATT
CTCGTTCACTCAACGTTTGTTGACACCTAGCGTGGGCCCTGTGGGATGGGGTAAAAGTTCGGTGTTGGGAGGAGC
CCCGGTGACAGATTTTTGGTTTTGGTGGTGGCTTTTGGGCAAGGACAGGTCAGTTCATAAAAGATGACGCCCCAG
GTCTGGATCGAATTCTCCTGGGAGCCAGACCAAAGCACCTTCCTGGACTGCAAAGTGTGGAAGCCGCCGCGGGCC
GGGCGCGGGGAGGTGTC**ATG**CGCCGGAACCTGCGCTTGGGGCCAAGCTCTGGAGCTGACGCGCAGGGGCAAGGCG
CCCCGCGTCCCGGACTGGCGGCTCCGCGCATGCTCCTCCCACCGGCGTCGCAGGCCTCGAGAGGCTCCGGAAGTA
CTGGGTGCAGCCTGATGGCGCAGGAGGTAGACACGGCACAGGGCGCCGAGATGCGGCGGGGCGCGGGCGCGGCTC
GGGGACGCGCTTCCTGGTGCTGGGCCCTGGCGCTGCTTTGGCTCGCGGTGGTTCCGGGCTGGTCCCGGGTCTCGG
GCATCCCCTCCCGGCGCCACTGGCCGGTGCCCTACAAGCGCTTTGACTTCCGTCCAAAACCTGATCCTTATTGTC
AAGCTAAGTATACTTTCTGTCCAACTGGCTCACCTATCCCAGTTATGGAGGGTGATGATGACATTGAAGTTTTTC
GATTACAAGCCCCAGTATGGGAATTTAAATATGGAGACCTCCTGGGACACTTGAAAATTATGCATGATGCCATTG
GATTCAGAAGTACATTAACTGGCAAGAACTACACAATGGAATGGTATGAACTTTTCCAACTTGGCAACTGTACAT
TTCCCCATCTCCGACCTGAAATGGATGCCCCTTTCTGGTGTAATCAAGGCGCTGCCTGCTTTTTTGAGGGAATTG
ATGATGTTCACTGGAAGGAAAATGGGACATTAGTTCAAGTAGCAACTATATCAGGAAACATGTTCAACCAAATGG
CAAAGTGGGTGAAACAGGACAATGAAACAGGAATTTATTATGAGACATGGAATGTAAAAGCCAGCCCAGAAAAGG
GGGCAGAGACATGGTTTGATTCCTACGACTGTTCCAAATTTGTGTTAAGGACCTTTAACAAGTTGGCTGAATTTG
GAGCAGAGTTCAAGAACATAGAAACCAACTATACAAGAATATTTCTTTACAGTGGAGAACCTACTTATCTGGGAA
ATGAAACATCTGTTTTTGGGCCAACAGGAAACAAGACTCTTGGTTTAGCCATAAAAAGATTTTATTACCCCTTCA
AACCACATTTGCCAACTAAAGAATTTCTGTTGAGTCTCTTGCAAATTTTTGATGCAGTGATTGTGCACAAACAGT
TCTATTTGTTTTATAATTTTGAATATTGGTTTTTACCTATGAAATTCCCTTTTATTAAAATAACATATGAAGAAA
TCCCTTTACCTATCAGAAACAAAACACTCTCTGGTTTA**TAA**AACACCTTAATTCTACTGCTCTTTTTCTCCAAT
CACCAGCATCTGTTTTTCAGGGGGTGATTTTACTTTTGTGAATTCCTTAGCCTTTCTTCCTTGGTGCATAAAGTT
AAAATGCACATCAGCAGAATTGCTGCATATTAACATCTCAGGACTCTTCTCTTGTAAAGAAGCTGAAATTCGTAC
TATATTGGCCAAAGTGAGCGAGTTAGGTGATCTTGGTTTCAATTTCCGAGCCTTTGTTAATATGGAGAATTATGG
TTCATATCAGTTATGTAGGACCTTTGGACCCAGGGTCCTACAGATAGATATGGTGTGCCCAGATTTTAAAAATAC
CTTCAAAAATAAAAAATACATTCAGTGACATTTTCATGGTGGGAGCTCTTCTTTCTGATATGGCAGTTACACTTT
TTCACTTAAGTGCTTTAGTTTAGACTAACTTTACAACTTCTATAACTTTTGGAACCAAGTTTAGTATAGTCTGAT
TACATTCCATTCACCTAACTTTAGACATTCGTTTAGACACCATAACTGGAGTGATTGTGCTTCTAGATGTGGCAA
ATCCAGTGTTAACACATATTTCTGGCTGAGATTTTGGAACTAGCTAGTAACTGGCTTGTGTTCTTTAAGCATACT
AACATCACTAAATCTTAGGATTTAGGATTGCTGTAAAGATGTAAGTTGTGTATGTTTGGCAGGTCACATTGAATG
GCAGTGATAATGATTAATCAAAGAACAAATGTCATCCTTGATCTTGCCTAATGTAGTTTATGTGCCAAACTTTCC
AGGGTTTTGTAGTCACCTAGATTTTAAGCTGATAGCATAGTGCTTCAGCGGTTCTTCTAACCGGGGTATGCAGGA
ACATGGCTGCAGACACGTTTGGGTAAACAGGCACCTTCTGACTTCTTCATTGTTTCCTGTAGTTCTCCCTCTTCC
CACAAAGCTGTCAGCGCAGTGGAAGAGGTTGCACTTCTCCGAGAGGACAGGTTTCTGTTAAGATCACCAAGTA
GCTGTGCTTTAATTAGAGCCAGACAAGCTTTCAAGGTCCTTTAAGTATTTGATGATCAACTGAACACGTTTCTAT

FIGURE 827B

TCAAGGAGAAAACACCATTCAGTAAGAAGATGGAGTAGATATCAGATAAAACAATTCACGTTTAATATGTAAATG
TACCAATTATGTGATTCAGTTTCAACTTTCAAGTACTTCCTGAGAGGTTAGTACATTATTATTGAGCTCTCACAG
AAAGCTTAATCATAGATATAATTAACCTGATCCAAATGAGTAAAGTGGACCTTAGAAAGGCTAAGTGATCTTTCT
CTGGCTATCCAGCTAGTAGTAATGAAGTCAGGTCTTGAACCCCGGTTCTGCTGACTGAATTGGATGCACTATAGT
ACAGGCTTTTAGCACCGAAGTGTGGTCCTCAGACCAGTGCCTGCCAACCAGATGTTACTGGTCTGTGAGGAAATA
AGTACAGATACTGACAGGAAGCTTTTATAAACAATTTATTGGAGTGTTTTTGTTTCTGTTGGGTCTAATTAAAAA
AATTGGAGCTTGTAAAAAAAAAAAAAAAAA

FIGURE 828

MRRNLRLGPSSGADAQGQGAPRPGLAAPRMLLPPASQASRGSGSTGCSLMAQEVDTAQGAEMRRGAGAARGRASW
CWALALLWLAVVPGWSRVSGIPSRRHWPVPYKRFDFRPKPDPYCQAKYTFCPTGSPIPVMEGDDDIEVFRLQAPV
WEFKYGDLLGHLKIMHDAIGFRSTLTGKNYTMEWYELFQLGNCTFPHLRPEMDAPFWCNQGAACFFEGIDDVHWK
ENGTLVQVATISGNMFNQMAKWVKQDNETGIYYETWNVKASPEKGAETWFDSYDCSKFVLRTFNKLAEFGAEFKN
IETNYTRIFLYSGEPTYLGNETSVFGPTGNKTLGLAIKRFYYPFKPHLPTKEFLLSLLQIFDAVIVHKQFYLFYN
FEYWFLPMKFPFIKITYEEIPLPIRNKTLSGL

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FIGURE 829

GGGGGACTGGGAGCGGGCGGCGCGGCC**ATG**GCGGGCTGCTGCTCCGCGCTGGCGGCCTTCCTGTTCGAGTACGAC
ACGCCGCGCATCGTGCTCATCCGCAGCCGCAAAGTGGGGCTCATGAACCGCGCCGTGCAACTGCTCATCCTGGCC
TACGTCATCGGGTGGGTGTTTGTGTGGGAAAAGGGCTACCAGGAAACTGACTCCGTGGTCAGCTCCGTTACGACC
AAGGTCAAGGGCGTGGCTGTGACCAACACTTCTAAACTTGGATTCCGGATCTGGGATGTGGCGGATTATGTGATA
CCAGCTCAGGAGGAAAACTCCCTCTTCGTCATGACCAACGTGATCCTCACCATGAACCAGACACAGGGCCTGTGC
CCCGAGATTCCAGATGCGACCACTGTGTGTAAATCAGATGCCAGCTGTACTGCCGGCTCTGCCGGCACCCACAGC
AACGGAGTCTCAACAGGCAGGTGCGTAGCTTTCAACGGGTCCGTCAAGACGTGTGAGGTGGCGGCCTGGTGCCCG
GTGGAGGATGACACACACGTGCCACAACCTGCTTTTTTAAAGGCTGCAGAAAACTTCACTCTTTTGGTTAAGAAC
AACATCTGGTATCCCAAATTTAATTTCAGCAAGAGGAATATCCTTCCCAACATCACCACTACTTACCTCAAGTCG
TGCATTTATGATGCTAAAACAGATCCCTTCTGCCCCATATTCGTCTTGGCAAAATAGTGGAGAACGCAGGACAC
AGTTTCCAGGACATGGCCGTGGAGGGAGGCATCATGGGCATCCAGGTCAACTGGGACTGCAACCTGGACAGAGCC
GCCTCCCTCTGCTTGCCCAGGTACTCCTTCCGCCGCCTCGATACACGGGACGTTGAGCACAACGTATCTCCTGGC
TACAATTTCAGGTTTGCCAAGTACTACAGAGACCTGGCTGGCAACGAGCAGCGCACGCTCATCAAGGCCTATGGC
ATCCGCTTCGACATCATTGTGTTTGGGAAGGCAGGGAAATTTGACATCATCCCCACTATGATCAACATCGGCTCT
GGCCTGGCACTGCTAGGCATGGCGACCGTGCTGTGTGACATCATAGTCCTCTACTGCATGAAGAAAGACTCTAC
TATCGGGAGAAGAAATATAAATATGTGGAAGATTACGAGCAGGGTCTTGCTAGTGAGCTGGACCAG**TGA**GGCCTA
CCCCACACCTGGGCTCTCCACAGCCCCATCAAAGAACAGAGAGGAGGAGGAGGGAGAAATGGCCACCACATCACC
CCAGAGAAATTTCTGGAATCTGATTGAGTCTCCACTCCACAAGCACTCAGGGTTCCCCAGCAGCTCCTGTGTGTT
GTGTGCAGGATCTGTTTGCCCACTCGGCCCAGGAGGTCA

FIGURE 830

MAGCCSALAAFLFEYDTPRIVLIRSRKVGLMNRAVQLLILAYVIGWVFVWEKGYQETDSVVSSVTTKVKGVAVTN
TSKLGFRIWDVADYVIPAQEENSLFVMTNVILTMNQTQGLCPEIPDATTVCKSDASCTAGSAGTHSNGVSTGRCV
AFNGSVKTCEVAAWCPVEDDTHVPQPAFLKAAENFTLLVKNNIWYPKFNFSKRNILPNITTTYLKSCIYDAKTDP
FCPIFRLGKIVENAGHSFQDMAVEGGIMGIQVNWDCNLDRAASLCLPRYSFRRLDTRDVEHNVSPGYNFRFAKYY
RDLAGNEQRTLIKAYGIRFDIIVFGKAGKFDIIPTMINIGSGLALLGMATVLCDIIVLYCMKKRLYYREKKYKYV
EDYEQGLASELDQ

FIGURE 831

CCGAGCCGAGCGCCGAGCAGGGAGCGGGCGGCCGCGCTCCGGGCCGGGGTCCCGGGGGAGCAGATCCTCAGAATG
GCCCTTGGTGCTGCAGGCGCGGTGGGCTCCGGGCCCAGGCACCGAGGGGGCACTGGATGACTCTCCAGGTGCAGG
ACCCTGCCATCT**ATG**ACTCCAGGTCTTCAGCACCCACCCACCGTGGTACAGCGCCCCGGGATGCCGTCTGGAGCC
CGGATGCCCCACCAGGGGGCGCCCATGGGCCCCCCGGGCTCCCCGTACATGGGCAGCCCCGCCGTGCGACCCGGC
CTGGCCCCCGCGGGCATGGAGCCCGCCCGCAAGCGAGCAGCGCCCCCGCCCGGGCAGAGCCAGGCACAGAGCCAG
GGCCAGCCGGTGCCCACCGCCCCCGCGCGGAGCCGCAGTGCCAAGAGGAGGAAGATGGCTGACAAAATCCTCCCT
CAAAGGATTCGGGAGCTGGTCCCCGAGTCCCAGGCTTACATGGACCTCTTGGCATTTGAGAGGAAACTGGATCAA
ACCATCATGCGGAAGCGGGTGGACATCCAGGAGGCTCTGAAGAGGCCCATGAAGCAAAAGCGGAAGCTGCGACTC
TATATCTCCAACACTTTTAACCCTGCGAAGCCTGATGCTGAGGATTCCGACGGCAGCATTGCCTCCTGGGAGCTA
CGGGTGGAGGGGAAGCTCCTGGATGATCCCAGCAAACAGAAGCGGAAGTTCTCTTCTTTCTTCAAGAGTTTGGTC
ATCGAGCTGGACAAAGATCTTTATGGCCCTGACAACCACCTCGTTGAGTGGCATCGGACACCCACGACCCAGGAG
ACGGACGGCTTCCAGGTGAAACGGCCTGGGGACCTGAGTGTGCGCTGCACGCTGCTCCTCATGCTGGACTACCAG
CCTCCCCAGTTCAAACTGGATCCCCGCCTAGCCCGGCTGCTGGGGCTGCACACAGAGCCGCTCAGCCATTGTC
CAGGCCCTGTGGCAGTATGTGAAGACCAACAGGCTGCAGGACTCCCATGACAAGGAATACATCAATGGGGACAAG
TATTTCCAGCAGATTTTTGATTGTCCCCGGCTGAAGTTTTCTGAGATTCCCCAGCGCCTCACAGCCCTGCTATTG
CCCCCTGACCCAATTGTCATCAACCATGTCATCAGCGTGGACCCTTCAGACCAGAAGAAGACGGCGTGCTATGAC
ATTGACGTGGAGGTGGAGGAGCCATTAAAGGGGCAGATGAGCAGCTTCCTCCTATCCACGGCCAACCAGCAGGAG
ATCAGTGCTCTGGACAGTAAGATCCATGAGACGATTGAGTCCATAAACCAGCTCAAGATCCAGAGGGACTTCATG
CTAAGCTTCTCCAGAGACCCCAAAGGCTATGTCCAAGACCTGCTCCGCTCCCAGAGCCGGGACCTCAAGGTGATG
ACAGATGTAGCCGGCAACCCTGAAGAGGAGCGCCGGGCTGAGTTCTACCACCAGCCCTGGTCCCAGGAGGCCGTC
AGTCGCTACTTCTACTGCAAGATCCAGCAGCGCAGGCAGGAGCTGGAGCAGTCGCTGGTTGTGCGCAACACC**TAG**

GAGCCCAAAAATAAGCAGCACGACGGAACTTTCAGCCGTGTCCCGGGCCCCAGCATTTTGCCCCGGGCTCCAGCA
TCACTCCTCTGCCACCTTGGGGTGTGGGGCTGGATTAAAAGTCATTCATCTGACA

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FIGURE 832

MTPGLQHPPTVVQRPGMPSGARMPHQGRPWAPRAPRTWAAPPCDPAWPPRDGARPQASSAPARQSQAQSQGQPEP
TAPARSRSAKRRKMADKILPQRIRELVPESQAYMDLLAFERKLDQTIMRKGVDIQEALKRPMKQKRKLRLYISNT
FNPAKSDAEDSDGSIASWELRVEGKLLDDPSKQKRKFSSFFKSLVIELDKDLYGPDNHLVEWHRTPTTQETDGFQ
VKRPGDLSVRCTLLLMLDYQPPQFKLDPRLARLLGLHTQSRSAIVQALWQYVKTNRLQDSHDKEYINGDKYFQQI
FDCPRLKFSEIPQRLTALLLPPDPIVINHVISVDPSDQKKTACYDIDVEVEEPLKGQMSSFLLSTANQQEISPLD
SKIHETIESINQLKIQRDFMLSFSRDPKGYVQDLLRSQSRDLKVMTDVAGNPEEERRAEFYHQPWSQEAVSRYFY
CKIQQRRQELEQSLVVRNT

FIGURE 833

TCCTGCGTTGCTGGGAAGTTCTGGAAGGAAGC**ATG**TGCTCCAGAGGTTGGGATTCGTGTCTGGCTCTGGAATTGC
TACTGCTGCCTCTGTCACTCCTGGTGACCAGCATTCAAGGTCACTTGGTACATATGACCGTGGTCTCCGGCAGCA
ACGTGACTCTGAACATCTCTGAGAGCCTGCCTGAGAACTACAAACAACTAACCTGGTTTTATACTTTCGACCAGA
AGATTGTAGAATGGGATTCCAGAAAATCTAAGTACTTTGAATCCAAATTTAAAGGCAGGGTCAGACTTGATCCTC
AGAGTGGCGCACTGTACATCTCTAAGGTCCAGAAAGAGGACAACAGCACCTACATCATGAGGGTGTTGAAAAAGA
CTGGGAATGAGCAAGAATGGAAGATCAAGCTGCAAGTGCTTGACCCTGTACCCAAGCCTGTCATCAAAATTGAGA
AGATAGAAGACATGGATGACAACTGTTATTTGAAACTGTCATGTGTGATACCTGGCGAGTCTGTAAACTACACCT
GGTATGGGGACAAAAGGCCCTTCCCAAAGGAGCTCCAGAACAGTGTGCTTGAAACCACCCTTATGCCACATAATT
ACTCCAGGTGTTATACTTGCCAAGTCAGCAATTCTGTGAGCAGCAAGAATGGCACGGTCTGCCTCAGTCCACCCT
GTACCCTGGCCCGGTCCTTTGGAGTAGAATGGATTGCAAGTTGGCTAGTGGTCACGGTGCCCACCATTCTTGGCC
TGTTACTTACC**TGA**GATGAGCTCTTTTAACTCAAGCGAAACTTCAAGGCCAGAAGATCTTGCCTGTTGGTGATCA
TGCTCCTCACCAGGACAGAGACTGTATAGGCTGACCAGAAGCATGCTGCTGAATTATCAACGAGGATTTTCAAGT
TAACTTTTAAATACTGGTTATTATTTAATTTTATATCCCTTTGTTGTTTTCTAGTACACAGAGATATAGAGATAC
ACATGCTTTTTTCCCACCCAAAATTGTGACAACATTATGTGAATGTTTTATTATTTTTTAAAATAAACATTTGAT
ATAATTATCAATTAACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 834

MCSRGWDSCLALELLLLPLSLLVTSIQGHLVHMTVVSGSNVTLNISESLPENYKQLTWFYTFDQKIVEWDSRKSK
YFESKFKGRVRLDPQSGALYISKVQKEDNSTYIMRVLKKTGNEQEWKIKLQVLDPVPKPVIKIEKIEDMDDNCYL
KLSCVIPGESVNYTWYGDKRPFPKELQNSVLETTLMPHNYSRCYTCQVSNSVSSKNGTVCLSPPCTLARSFGVEW
IASWLVVTVPTILGLLLT

FIGURE 835

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CGCCTTCCCTCCAATCAGCACCGGGGCCGGCTAGCCAGGGGCCGGCCGCGCGGGGTGTGTGAGGACGCGCTCCCA
GTCGCTGAGTGCCTGAGCCGGGAAGCAGTTGCTGTGGTACCTGCGCTGCCCGAGCGGAGTGGATGGCAGAGGTGG
GCTGTAGAGCCAAAGTGGGGTGGGAGCGCGAAGATGGCAGCTGCTGAGGAGGAGCCGAAGCCCAAAAAGCTGAAG
GTGGAGGCGCCGCAAGCGCTGAGAGAAAATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATCTCTGCTGTA
GTGGACAAAGATTTCCTTGATAAGTATTCTCTGAAACCAAATGACCAAATCTTGGCTGAAGACAAACACAAGGAA
CTGTTTGATGAACTTGTGAAAAAATTCAAAGTCGAATATCATGCTGGTGGCTCTACCCAGAATTCAATTAAAGTG
GCTCAGTGGATGATTCAACAGCCACACAAAGCAGCAACATTTTTTGGATGCATTGGGATAGATAAATTTGGGGAG
ATCCTGAAGAGAAAAGCTGCTGAAGCCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCAACAGGAACT
TGTGCTGCATGCATCACTGGTGACAACAGGTCCCTCATAGCTAATCTTGCTGCTGCCAATTGTTATAAAAAGGAA
AAACATCTTGATCTGGAGAAAAACTGGATGTTGGTAGAAAAAGCAAGAGTTTGTTATATAGCAGGCTTTTTTCTT
CACGTTTCCCCAGAGTCAGTATTAAAGGTGGCTCACCATGCTTCTGAAAACAACAGGATTTTCACTTTGAATCTA
TCTGCACCGTTTATTAGCCAGTTCTACAAGGAATCATTGATGAAAGTTATGCCTTATGTTGATATACTTTTTGGA
AATGAGACAGAAGCTGCCACTTTTGCTAGAGAGCAAGGCTTTGAGACTAAAGACATTAAAGAGATAGCCAAAAAG
ACACAAGCCCTGCCAAAGATGAACTCAAAGAGGCAGCGAATCGTGATCTTCACCCAAGGGAGAGATGACACTATA
ATGGCTACAGAAGTGAAGTCACTGCTTTTGCTGTCTTGGATCAAGACCAGAAGAAATTATTGATACCAATGGA
GCTGGAGATGCATTTGTTGGAGGTTTTCTGTCTCAACTGGTCTCTGACAAGCCTCTGACTGAATGTATCCGTGCT
GGCCACTATGCAGCAAGCATCATAATTAGACGGACTGGCTGCACCTTTCCTGAGAAGCCAGACTTCCACTGATGG
AAGAGCTGAAAACACAAGCCCAGGAGTGCAGACACTGCCCTAATTGCTTCCTGACAATTCCCATATTAATAAAGA
AGAAAATTATCTGCCATTTTTTCCTACTATAATAATGCTGAATCTTAATTTAGAGGGTACAAGGGTATGGTAATG
CTTGTAGAATCTTTATTATCTCAACAATCTAAAAAATGATGTTTATTTCCATAGTTTGATAGTGCCACTTAAATG
CCAATTAAACAAGAATATAACATTTCAATAGAAATTTTTATTTCATTTTCAATTACTTTGTAAATTCGTGTGTAT
TTAGTACACTGATTTGTTTTTTACATTTCTGCTTTGAATGCAGATGCAATTTAATATAATAGATTTTTTAATGAA
TTAATCTTAACATAGTAATCTTTAGCTTTTTATACAAATATATTTAATTTAGGAGTATATGTGTGTCTATACACA
CACATACATAAATATACCACATATACACCTGATAGTCAAATAAGGTACAGAAATTTTATCTTGTCAATTATGCCA
AATAATCTCTTTAATGTGCACTCAACATGTAATAAACTTTGGATAATTAAAAAAAAAAAA
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FIGURE 836

MAAAEEEPKPKKLKVEAPQALRENILFGMGNPLLDISAVVDKDFLDKYSLKPNDQILAEDKHKELFDELVKKFKV
EYHAGGSTQNSIKVAQWMIQQPHKAATFFGCIGIDKFGEILKRKAAEAHVDAHYYEQNEQPTGTCAACITGDNRS
LIANLAAANCYKKEKHLDLEKNWMLVEKARVCYIAGFFLHVSPESVLKVAHHASENNRIFTLNLSAPFISQFYKE
SLMKVMPYVDILFGNETEAATFAREQGFETKDIKEIAKKTQALPKMNSKRQRIVIFTQGRDDTIMATESEVTAFA
VLDQDQKEIIDTNGAGDAFVGGFLSQLVSDKPLTECIRAGHYAASIIIRRTGCTFPEKPDFH

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FIGURE 837

GGTGTGTCCCGGGTGTGGGGAGGCGACAGAGCCCTGGCACTTGAGGGTTGAGGGGGCCTCCCCAGCGCGGCGAAC
CGTCTAGCCTCCGGAGGCCAGGCCGTGAGTGCGGGAGGTATACGCCAAGGCGGAAGAATTTTGCCACTCACTACC
TGTGTGACCTCGGGTAAATTAGCCTTGGAACGTCAGTTCTTCGTCTCTATAATTGAAATAATAATAGTACCTCT
CTCAGGATTGTTGTGAGCCGTCAGTGAAACACTTAGAGCAGTTTCTGGCACATGGTAGAATTGGGCTATTTGCTT
GAAGCTTCTTGGTGGCCCTTGCTAGCCCAGGAAGAAACTTACATTTTGATTTTTTTGTACC**ATG**GCTTTGGTTCA
CAAATTGCTGCATGGTACTTATTTTCTCAGAAAATTCTCTAAGCCAACTTCTGCCTTGTATCCATTTTTGGGTAT
CCGCTTTGCAGAGTATTCCAGTAGTCTTCAGAAACCAGTGGCTTCTCCTGGCAAAGCCTCCTCACAGAGGAAGAC
TGAAGGGGATTTGCAAGGAGATCACCAGAAAGAAGTTGCTTTGGATATAACTTCTTCTGAGGAGAAGCCTGATGT
TAGTTTCGATAAAGCAATTAGAGATGAAGCAATATACCATTTTAGGCTTTTGAAGGATGAAATTGTGGATCATTG
GAGAGGACCGGAAGGCCACCCTCTGCATGAGGTCTTGCTGGAACAAGCCAAGGTTGTCTGGCAATTCCGGGGGAA
AGAAGATTTGGATAAGTGGACAGTGACTTCTGATAAGACGATTGGAGGCAGAAGTGAAGTGTTTTTGAAAATGGG
CAAGAATAACCAAAGTGCACTGCTATATGGAACTCTGAGCTCTGAGGCGCCTCAGGACGGCGAGTCTTCCCGAAG
TGGGTACTGTGCAATGATATCCAGGATTCCAAGGGGTGCTTTTAAGAGGAAGATGTCTTACGATTGGTCCCAGTT
CAATACTCTGTATCTCCGTGTACGTGGGGATGGTCGGCCTTGGATGGTGAATATCAAGGAGGACACAGATTTCTT
CCAGAGGACGAATCAGATGTATAGTTACTTCATGTTCACCCGCGGGGGACCCTACTGGCAGGAGGTCAAGATTCC
TTTTTCCAAATTTTTCTTCTCTAATCGAGGAAGAATCCGGGATGTTCAGCATGAGCTTCCGCTTGATAAGATCTC
TTCTATAGGATTCACCTTGGCTGATAAAGTGGATGGTCCATTCTTCCTGGAGATAGATTTTATTGGCGTGTTTAC
TGATCCAGCTCATACAGAAGAATTTGCCTATGAAAATTCTCCAGAGCTTAACCCAAGGCTTTTTAAA**TAA**AGATC
ATATGGTAGTTTTGTTTTACTAATCTAAGGGTACTAGCATCTACAATGATATAGACAAAATAAAATATTTCTTTA
ATGGCATCCAAA

FIGURE 838

MALVHKLLHGTYFLRKFSKPTSALYPFLGIRFAEYSSSLQKPVASPGKASSQRKTEGDLQGDHQKEVALDITSSE
EKPDVSFDKAIRDEAIYHFRLLKDEIVDHWRGPEGHPLHEVLLEQAKVVWQFRGKEDLDKWTVTSDKTIGGRSEV
FLKMGKNNQSALLYGTLSSEAPQDGESSRSGYCAMISRIPRGAFKRKMSYDWSQFNTLYLRVRGDGRPWMVNIKE
DTDFFQRTNQMYSYFMFTRGGPYWQEVKIPFSKFFFSNRGRIRDVQHELPLDKISSIGFTLADKVDGPFFLEIDF
IGVFTDPAHTEEFAYENSPELNPRLFK

FIGURE 839

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GGCACGAGGGGGAGGAGGAGGAATGTGGAAGGTGGCGGCGCGCGAGCTGACAGGCGGTTCCTCGGGCGGGCTGCG
GCGACGGCCCGAGCGCTTCTCCTTCGCCGAGGTTGCGCGCCCCCTCCTCGCCGTGCCCCGGGCCCGCGCGGGATC
GTGCGTCGTCCCGCCGCGTCCCTGAAGGGAAGGAAGCGAGGCGGCGGCGGCGGCGCCCGGGAGCCGGAGCCTTCG
CGGCGTCCACGTCCCTCCCCCGCTGCACCCCGCCCCGGCGCGAGAGGAGAGCGCGAGAGCCCCAGCCGCGGGCGG
GCGGGCGGCGAAGATGGCAGAGGCACCGGCTTCCCCGGCCCCGCTCTCTCCGCTCGAAGTGGAGCTGGACCCGGA
GTTCGAGCCCCAGAGCCGTCCGCGATCCTGTACGTGGCCCCTGCAAAGGCCGGAGCTCCAAGCGAGCCCTGCCAA
GCCCTCGGGGGAGACGGCCGCCGACTCCATGATCCCCGAGGAGGAGGACGATGAAGACGACGAGGACGGCGGGGG
ACGGGCCGGCTCGGCCATGGCGATCGGCGGCGGCGGCGGGAGCGGCACGCTGGGCTCCGGGCTGCTCCTTGAGGA
CTCGGCCCGGGTGCTGGCACCCGGAGGGCAAGACCCCGGGTCTGGGCCAGCCACCGCGGCGGGCGGGCTGAGCGG
GGGTACACAGGCGCTGCTGCAGCCTCAGCAACCGCTGCCACCGCCGCAGCCGGGGGCGGCTGGGGGCTCCGGGCA
GCCGAGGAAATGTTCGTCGCGGCGGAACGCCTGGGGAAACCTGTCCTACGCGGACCTGATCACCCGCGCCATCGA
GAGCTCCCCGGACAAACGGCTCACTCTGTCCCAGATCTACGAGTGGATGGTGCGTTGCGTGCCCTACTTCAAGGA
TAAGGGCGACAGCAACAGCTCTGCCGGCTGGAAGAACTCCATCCGGCACAACCTGTCACTGCATAGTCGATTCAT
GCGGGTCCAGAATGAGGGAACTGGCAAGAGCTCTTGGTGGATCATCAACCCTGATGGGGGGAAGAGCGGAAAAGC
CCCCCGGCGGCGGGCTGTCTCCATGGACAATAGCAACAAGTATACCAAGAGCCGTGGCCGCGCAGCCAAGAAGAA
GGCAGCCCTGCAGACAGCCCCCGAATCAGCTGACGACAGTCCCTCCCAGCTCTCCAAGTGGCCTGGCAGCCCCAC
GTCACGCAGCAGTGATGAGCTGGATGCGTGGACGGACTTCCGTTCACGCACCAATTCTAACGCCAGCACAGTCAG
TGGCCGCCTGTCGCCCATCATGGCAAGCACAGAGTTGGATGAAGTCCAGGACGATGATGCGCCTCTCTCGCCCAT
GCTCTACAGCAGCTCAGCCAGCCTGTCACCTTCAGTAAGCAAGCCGTGCACGGTGGAACTGCCACGGCTGACTGA
TATGGCAGGCACCATGAATCTGAATGATGGGCTGACTGAAAACCTCATGGACGACCTGCTGGATAACATCACGCT
CCCGCCATCCCAGCCATCGCCCACTGGGGGACTCATGCAGCGGAGCTCTAGCTTCCCGTATACCACCAAGGGCTC
GGGCCTGGGCTCCCCAACCAGCTCCTTTAACAGCACGGTGTTCGGACCTTCATCTCTGAACTCCCTACGCCAGTC
TCCCATGCAGACCATCCAAGAGAACAAGCCAGCTACCTTCTCTTCCATGTCACACTATGGTAACCAGACACTCCA
GGACCTGCTCACTTCGGACTCACTTAGCCACAGCGATGTCATGATGACACAGTCGGACCCCTTGATGTCTCAGGC
CAGCACCGCTGTGTCTGCCCAGAATTCCCGCCGGAACGTGATGCTTCGCAATGATCCGATGATGTCCTTTGCTGC
CCAGCCTAACCAGGGAAGTTTGGTCAATCAGAACTTGCTCCACCACCAGCACCAAACCCAGGGCGCTCTTGGTGG
CAGCCGTGCCTTGTCGAATTCTGTCAGCAACATGGGCTTGAGTGAGTCCAGCAGCCTTGGGTCAGCCAAACACCA
GCAGCAGTCTCCTGTCAGCCAGTCTATGCAAACCCTCTCGGACTCTCTCTCAGGCTCCTCCTTGTACTCAACTAG
TGCAAACCTGCCCGTCATGGGCCATGAGAAGTTCCCCAGCGACTTGGACCTGGACATGTTCAATGGGAGCTTGGA
ATGTGACATGGAGTCCATTATCCGTAGTGAACTCATGGATGCTGATGGGTTGGATTTTAACTTTGATTCCCTCAT
CTCCACACAGAATGTTGTTGGTTTGAACGTGGGGAACTTCACTGGTGCTAAGCAGGCCTCATCTCAGAGCTGGGT
GCCAGGCTGAAGGATCACTGAGGAAGGGGAAGTGGGCAAAGCAGACCCTCAAACTGACACAAGACCTACAGAGAA
AACCCTTTGCCAAATCTGCTCTCAGCAAGTGGACAGTGATACCGTTTACAGCTTAACACCTTTGTGAATCCCACG
CCATTTTCCTAACCCAGCAGAGACTGTTAATGGCCCCTTACCCTGGGTGAAGCACTTACCCTTGGAACAGAACTC
TAAAAAGTATGCAAATCTTCCTTGTACAGGGTGGTGAGCCGCCTGCCAGTGGAGGACAGCACCCCTCAGCACCA
CCCACCCTCATTCAGAGCACACCGTGAGCCCCGTCGGCCATTCTGTGGTGTTTTAATATTGCGATGGTTTATGG
GACGTTTTAAGTGTTGTTCTTGTGTTTGTTTTCCTTTGACTTTCTGAGTTTTTCACATGCATTAACTTGCGGTAT
TTTTCTGTTAAAATGTTAACCGTCCTTCCCCTAGCAAATTTAAAAACAGAAAGAAAATGTTGTACCAGTTACCAT
TCCGGGTTCGAGCATCACAAGCTTTTGAGCGCATGGAACTCCATAAACTAACAAATTACATAAACTAAAGGGGGA
TTTTCTTTCTTCTTTTGTTTGGTAGAAAATTATCCTTTTCTAAAAACTGAACAATGGCACAATTGTTTGCTATGT
GCACCCGTCCAGGACAGAACCGTGCATAGGCAAAAGGAGTGGAGCACAGCGTCCGGCCCAGTGTGTTTCCGGTTC
TGAGTCAGGGTGATCTGTGGACGGGACCCCAGCACCAAGTCTACGGGTGCCAGATCAGTAGGGCCTGTGATTTCC
TGTCAGTGTCCTCAGCTAATGTGAACAGTGTTGGTCTGCTGGTTAGAAACTAGAATATTGATATTTTCAGGAAAG
AAATCAGCTCAGCTCTCCACTCATTGCCAAATGTCACTAAAGGGTTTAGTTTTAAGGAGAAAGAAAAAAAAAAAA
AAAAAAAAA
```

FIGURE 840

MAEAPASPAPLSPLEVELDPEFEPQSRPRSCTWPLQRPELQASPAKPSGETAADSMIPEEEDDEDDEDGGGRAGS
AMAIGGGGGSGTLGSGLLLEDSARVLAPGGQDPGSGPATAAGGLSGGTQALLQPQQPLPPPQPGAAGGSGQPRKC
SSRRNAWGNLSYADLITRAIESSPDKRLTLSQIYEWMVRCVPYFKDKGDSNSSAGWKNSIRHNLSLHSRFMRVQN
EGTGKSSWWIINPDGGKSGKAPRRRAVSMDNSNKYTKSRGRAAKKKAALQTAPESADDSPSQLSKWPGSPTSRSS
DELDAWTDFRSRTNSNASTVSGRLSPIMASTELDEVQDDDAPLSPMLYSSSASLSPSVSKPCTVELPRLTDMAGT
MNLNDGLTENLMDDLLDNITLPPSQPSPTGGLMQRSSSFPYTTKGSGLGSPTSSFNSTVFGPSSLNSLRQSPMQT
IQENKPATFSSMSHYGNQTLQDLLTSDSLSHSDVMMTQSDPLMSQASTAVSAQNSRRNVMLRNDPMMSFAAQPNQ
GSLVNQNLLHHQHQTQGALGGSRALSNSVSNMGLSESSSLGSAKHQQQSPVSQSMQTLSDSLSGSSLYSTSANLP
VMGHEKFPSDLDLDMFNGSLECDMESIIRSELMDADGLDFNFDSLISTQNVVGLNVGNFTGAKQASSQSWVPG

FIGURE 841

CGGCGCGATGCGCGGAGACCCCCGCGGGGGCGGCGGCGGCCGTGAGCCCCG**ATG**AGGCCCGAGCGTCCCCGGCCG
CGCGGCAGCGCCCCCGGCCCGATGGAGACCCCGCCGTGGGACCCAGCCCGCAACGACTCGCTGCCGCCCACGCTG
ACCCCGGCCGTGCCCCCCTACGTGAAGCTTGGCCTCACCGTCGTCTACACCGTGTTCTACGCGCTGCTCTTCGTG
TTCATCTACGTGCAGCTCTGGCTGGTGCTGCGTTACCGCCACAAGCGGCTCAGCTACCAGAGCGTCTTCCTCTTT
CTCTGCCTCTTCTGGGCCTCCCTGCGGACCGTCCTCTTCTCCTTCTACTTCAAAGACTTCGTGGCGGCCAATTCG
CTCAGCCCCTTCGTCTTCTGGCTGCTCTACTGCTTCCCTGTGTGCCTGCAGTTTTTCACCCTCACGCTGATGAAC
TTGTACTTCACGCAGGTGATTTTCAAAGCCAAGTCAAAATATTCTCCAGAATTACTCAAATACCGGTTGCCCCTC
TACCTGGCCTCCCTCTTCATCAGCCTTGTTTTCCTGTTGGTGAATTTAACCTGTGCTGTGCTGGTAAAGACGGGA
AATTGGGAGAGGAAGGTTATCGTCTCTGTGCGAGTGGCCATTAATGACACGCTCTTCGTGCTGTGTGCCGTCTCT
CTCTCCATCTGTCTCTACAAAATCTCTAAGATGTCCTTAGCCAACATTTACTTGGAGTCCAAGGGCTCCTCCGTG
TGTCAAGTGACTGCCATCGGTGTCACCGTGATACTGCTTTACACCTCTCGGGCCTGCTACAACCTGTTCATCCTG
TCATTTTCTCAGAACAAGAGCGTCCATTCCTTTGATTATGACTGGTACAATGTATCAGACCAGGCAGATTTGAAG
AATCAGCTGGGAGATGCTGGATACGTATTATTTGGAGTGGTGTTATTTGTTTGGGAACTCTTACCTACCACCTTA
GTCGTTTATTTCTTCCGAGTTAGAAATCCTACAAAGGACCTTACCAACCCTGGAATGGTCCCCAGCCATGGATTC
AGTCCCAGATCTTATTTCTTTGACAACCCTCGAAGATATGACAGTGATGATGACCTTGCCTGGAACATTGCCCCT
CAGGGACTTCAGGGAGGTTTTGCTCCAGATTACTATGATTGGGGACAACAAACTAACAGCTTCCTGGCACAAGCA
GGAACTTTGCAAGACTCAACTTTGGATCCTGACAAACCAAGCCTTGGG**TAG**CATCAGTTAACAGTTTTATGGACG
ATTCCTCAGATGAAAAGCTTCAGAAAAGCATAGTGACAGCTGAATTTTTAGGGCACTTTTCCTTAAGAAATAGAA
CTTGATTTTTATTTGTTACAGGTTTCCAATGGCCCCATAGGAATAAGCAATAATGTAGACTGATAAACCCTTATT
TTAGTACTAAAGAGGGAGCCTTGCTATTTCAGTGGGTATAATTTAAACTTTTTAAAGAAAATCTGTACTTTTATA
AAGATGTATTTTGTATAACTTAAATAATAATGCTAAAGTATACTAGGGTTTTTTTTTCTTGAGAATGTTACTGCA
ATCATGTTGTAGTTTGCACAGACTTTTATGCATAATTCACTTTAAAAATATAGAATATATGGTCTAATAGTTTTT
TAAAGCTTTTGGACTAAAGTATTCCACAAATCTTACCTCTTTAGGTCACTGATGGTCACTCCGATTCTGAGTGCC
ACATTGGTAGACTCCTAAAATACAGTTGACAACTTAGCCAATTGCAACTCCAGTGTTGATAATTAAAATGAAATG
GTAAAGCAGCAGACTGTAAGGTCTTTAGAGATTTTTTTTTAAGGTTCAGGCCGTAGGTTCCTCAAGGAATCTCTT
AAGTTTTGCCCAAAGACTGGTACTTCCTTTCAGTAGGGCGCTAATGTATACACATTAATGATAAGTTGATAACAT
TAAAAATGTAGCTGACTTATCCTATTAAACCTCCTCTGCTATGTTCAC

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FIGURE 842

MRPERPRPRGSAPGPMETPPWDPARNDSLPPTLTPAVPPYVKLGLTVVYTVFYALLFVFIYVQLWLVLRYRHKRL
SYQSVFLFLCLFWASLRTVLFSFYFKDFVAANSLSPFVFWLLYCFPVCLQFFTLTLMNLYFTQVIFKAKSKYSPE
LLKYRLPLYLASLFISLVFLLVNLTCAVLVKTGNWERKVIVSVRVAINDTLFVLCAVSLSICLYKISKMSLANIY
LESKGSSVCQVTAIGVTVILLYTSRACYNLFILSFSQNKSVHSFDYDWYNVSDQADLKNQLGDAGYVLFGVVLFV
WELLPTTLVVYFFRVRNPTKDLTNPGMVPSHGFSPRSYFFDNPRRYDSDDDLAWNIAPQGLQGGFAPDYYDWGQQ
TNSFLAQAGTLQDSTLDPDKPSLG

FIGURE 843

GCCCGCCGGTCCACGCCGCGCACCGCTCCGAGGGCCAGCGCCACCCGCTCCGCAGCCGGCACC**ATG**CGCGAGATC
GTGCACATCCAGGCGGGCCAGTGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGCGATGAGCATGGG
ATCGACCCCACAGGCAGTTACCATGGAGACAGTGACTTGCAGCTGGAGAGAATCAACGTGTACTACAATGAGGCT
GCTGGTAACAAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCTGGCACCATGGACTCTGTCAGGTCTGGA
CCCTTCGGCCAGATCTTCAGACCAGACAACTTCGTGTTCGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGC
CACTACACAGAGGGAGCCGAGCTGGTCGACTCGGTCCTGGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGT
CTCCAGGGCTTCCAGCTGACCCACTCTCTGGGGGGCGGCACGGGTCCGGGATGGGCACCCTGCTCATCAGCAAG
ATCCGGGAAGAGTACCCAGACCGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTCAGACACGGTG
GTGGAGCCCTACAACGCCACCCTCTCGGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTCCATTGATAAC
GAGGCCCTGTATGACATCTGCTTCCGCACCCTGAAGCTGACCACCCCCACCTACGGGGACCTCAACCACCTGGTG
TCGGCCACCATGAGCGGGGTCACCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCG
GTGAACATGGTGCCCTTCCCTCGCCTGCACTTCTTCATGCCCGGCTTCGCGCCCCTGACCAGCCGGGGCAGCCAG
CAGTACCGGGCGCTCACGGTGCCCGAGCTCACCCAGCAGATGTTCGACTCCAAGAACATGATGGCCGCCTGCGAC
CCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAG
ATGCTCAACGTGCAGAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAACGTGAAGACGGCCGTGTGC
GACATCCCGCCCCGCGGCCTGAAGATGTCGGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAG
CGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGAC
GAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACG
GCCGACGAACAAGGGGAGTTCGAGGAGGAGGAGGGCGAGGACGAGGCT**TAA**AAACTTCTCAGATCAATCGTGCAT
CCTTAGTGAACTTCTGTTGTCCTCAAGCATGGTCTTTCTACTTGTAAACTATGGTGCTCAGTTTTGCCTCTGTTA
GAAATTCACACTGTTGATGTAATGATGTGGAACTCCTCTAAAAATTACAGTATTGTCTGTGAAGGTATCTATACT
AATAAAAAAGCATGTGTAG

FIGURE 844

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSDLQLERINVYYNEAAGNKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTDETYSIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVPFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDSKNMM
AACDPRHGRYLTVAAIFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATADEQGEFEEEGEDEA

FIGURE 845

GCCACGGCGCGGACGCC**ATG**CACACGGACCCTGACTACTCGGCTGCCTATGTCGTCATAGAAACTGATGCAGAAG
ATGGAATCAAGGGGTGTGGAATTACCTTCACTCTGGGAAAAGGCACTGAAGTTGTTGTCTGTGCTGTGAATGCCC
TCGCCCACCATGTGCTCAACAAGGACCTCAAGGACATTGTTGGTGACTTCAGAGGCTTCTATAGGCAGCTCACAA
GTGATGGGCAGCTCAGATGGATTGGTCCAGAAAAGGGCGTGGTGCACCTGGCGACAGCGGCCGTCCTAAACGCGG
TGTGGGACTTGTGGGCCAAGCAGGAGGGAAAGCCTGTCTGGAAGTTACTTGTGGACATGGATCCCAGGATGCTGG
TATCCTGCATAGATTTCAGGTACATCACTGATGTCCTGACTGAGGAGGATGCCCTAGAAATACTGCAGAAAGGTC
AAATTGGTAAAAAGAAAGAGAGAAGCAAATGCTGGCACAAGGATACCCTGCTTACACGACATCGTGCGCCTGGC
TGGGGTACTCAGATGACACGTTGAAGCAGCTCTGTGCCCAGGCGCTGAAGGATGGCTGGACCAGGTTTAAAGTAA
AGGTGGGTGCTGATCTCCAGGATGACATGCGAAGATGCCAAATCATCCGAGACATGATTGGACCGGAAAAGACTT
TGATGATGGATGCCAACCAGCGCTGGGATGTGCCTGAGGCGGTGGAGTGGATGTCCAAGCTGGCCAAGTTCAAGC
CATTGTGGATTGAGGAGCCAACCTCCCCTGATGACATTCTGGGGCACGCCACCATTTCCAAGGCACTGGTCCCAT
TAGGAATTGGCATTGCCACAGGAGAACAGTGCCACAATAGAGTGATATTTAAGCAACTCCTACAGGCGAAGGCCC
TGCAGTTCCTCCAGATTGACAGTTGCAGACTGGGCAGTGTCAATGAGAACCTCTCAGTATTGCTGATGGCCAAAA
AGTTTGAAATTCCTGTTTGCCCCCATGCTGGTGGAGTTGGCCTCTGTGAACTGGTGCAGCACCTGATTATATTTG
ACTACATATCAGTTTCTGCAAGCCTTGAAAATAGGGTGTGTGAGTATGTTGACCACCTGCATGAGCATTTCAAGT
ATCCCGTGATGATCCAGCGGGCTTCCTACATGCCTCCCAAGGATCCCGGCTACTCAACAGAAATGAAGGAGGAAT
CTGTAAAGAAACACCAGTATCCAGATGGTGAAGTTTGGAAGAAACTCCTTCCTGCTCAAGAAAAT**TAA**GTGCTCA
GCCCCAACAACTTTTTTCTTTCTGAAGTGAAAGGGCTTAAAATTTCTTGGAAATAGTTTTACAAAAATGGATTTA
AAAAATCCTACCGATCAAGATGAGTTCAGCTAGAAGTCATACCACCCTCAGGAATCAGCTAAGTAATTATTACTT
GATTCTTTTAGCAAATCAATGCACGTTATCCTACTTAATCCTTAAATAAGTTTAGATTTAACTAACCCAAAGTCC
AGGAGGATGTTCTTACAAAAATAGCTATATCAAGGGCTGGCACCTAGACATTAAACTGTACTTTGAAAATAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 846

MHTDPDYSAAYVVIETDAEDGIKGCGITFTLGKGTEVVVCAVNALAHHVLNKDLKDIVGDFRGFYRQLTSDGQLR
WIGPEKGVVHLATAAVLNAVWDLWAKQEGKPVWKLLVDMDPRMLVSCIDFRYITDVLTEEDALEILQKGQIGKKE
REKQMLAQGYPAYTTSCAWLGYSDDTLKQLCAQALKDGWTRFKVKVGADLQDDMRRCQIIRDMIGPEKTLMMDAN
QRWDVPEAVEWMSKLAKFKPLWIEEPTSPDDILGHATISKALVPLGIGIATGEQCHNRVIFKQLLQAKALQFLQI
DSCRLGSVNENLSVLLMAKKFEIPVCPHAGGVGLCELVQHLIIFDYISVSASLENRVCEYVDHLHEHFKYPVMIQ
RASYMPPKDPGYSTEMKEESVKKHQYPDGEVWKKLLPAQEN

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FIGURE 847

TGCTCCCTGAACACTCGGAGGTGGCGGTGGATCTTACTCCTTCCAGCCAGTGAGGATCCAGCAACCTGCTCCGTG
CCTCCCGCGCCTGTTGGTTGGAAGTGACGACCTTGAAGATCGGCCGGTTGGAAGTGACGACCTTGAAGATCGGCG
GGCGCAGCGGGGCCGAGGGGGCGGGTCTGGCGCTAGGTCCAGCCCCTGCGTGCCGGGAACCCCAGAGGAGGTCGC
AGTTCAGCCCAGCTGAGGCCTGTCTGCAGAATCGACACCAACCAGCATC**ATG**TCCATGACACTGGGGTACTGGGA
CATCCGCGGGCTGGCCCACGCCATCCGCCTGCTCCTGGAATACACAGACTCAAGCTACGAGGAAAAGAAGTATAC
GATGGGGGACGCTCCTGACTATGACAGAAGCCAGTGGCTGAATGAAAAATTCAAGCTGGGCCTGGACTTTCCCAA
TCTGCCCTACTTGATTGATGGGGCTCACAAGATCACCCAGAGCAACGCCATCCTGTGCTACATTGCCCGCAAGCA
CAACCTGTGTGGGGAGACAGAAGAGGAGAAGATTCGTGTGGACATTTTGGAGAACCAGGCTATGGACGTCTCCAA
TCAGCTGGCCAGAGTCTGCTACAGCCCTGACTTTGAGAAACTGAAGCCAGAATACTTGGAGGAACTTCCTACAAT
GATGCAGCACTTCTCACAGTTCCTGGGGAAGAGGCCATGGTTTGTTGGAGACAAGATCACCTTTGTAGATTTCCT
CGCCTATGATGTCCTTGACCTCCACCGTATATTTGAGCCCAACTGCTTGGACGCCTTCCCAAATCTGAAGGACTT
CATCTCCCGCTTTGAGGGCTTGGAGAAGATCTCTGCCTACATGAAGTCCAGCCGCTTCCTCCCAAAACCTCTGTA
CACAAGGGTGGCTGTCTGGGGCAACAAG**TAA**TGCCTTGAAGGCCAGGAGGTGGGAGTGAGGAGCCCATACTCAGC
CTGCTGCCCAGGCTGTGCAGCGCAGCTGGACTCTGCATCCCAGCACCTGCCTCCTCGTTCCTTTCTCCTGTTTAT
TCCCATCTTTACCCCCAAGACTTTATTGGGCCTCTTCACTTCCCCTAAACCCCTGTCCCATGCAGGCCCTTTGAA
GCCTCAGCTACCTACTTTCCTTCATGAACATCCCCCTCCCAACACTACCCTTCCCTGCACTAAAGCCAGCCTGAC
CTTCCTTCCTGTTAGTGGTTGTATCTGCTTTGAAGGGCCTACCTGGCCCCTCGCCTGTGGAGCTCAGCCCTGAGC
TGTCCCCGTGTTGCATGACAGCATTGACTGGTTTACAGGCCCTGCTCCTGCAGCATGGCCCCTGCCTTAGGCCTA
CCTGATCAAAATAAAGCCTCAGCCACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 848

MSMTLGYWDIRGLAHAIRLLLEYTDSSYEEKKYTMGDAPDYDRSQWLNEKFKLGLDFPNLPYLIDGAHKITQSNA
ILCYIARKHNLCGETEEEKIRVDILENQAMDVSNQLARVCYSPDFEKLKPEYLEELPTMMQHFSQFLGKRPWFVG
DKITFVDFLAYDVLDLHRIFEPNCLDAFPNLKDFISRFEGLEKISAYMKSSRFLPKPLYTRVAVWGNK

FIGURE 849A

CGGGGCTGCCGGGGCCGGGACTGGGGGAGCCGGGCCCGCGGGCCGCCTGCTGCCTCCGCCCGCGCCGGGGTCCCC
AGCCGCCCCGCTGCCGTGTCCCCTGCGGCCGGCCAGCCGCGTCCCCCAGCCCCGGCCTCCCGCGGACCCATGCC
CGCCCGTATCGGCTACTACGAGATCGACCGCACCATCGGCAAGGGCAACTTCGCGGTGGTCAAGCGGGCCACGCA
CCTCGTCACCAAGGCCAAGGTTGCTATCAAGATCATAGATAAGACCCAGCTGGATGAAGAAAACTTGAAGAAGAT
TTTCCGGGAAGTTCAAATTATGAAGATGCTTTGCCACCCCCATATCATCAGGCTCTACCAGGTTATGGAGACAGA
ACGGATGATTTATCTGGTGACAGAATATGCTAGTGGAGGGGAAATATTTGACCACCTGGTGGCCCATGGTAGAAT
GGCAGAAAAGGAGGCACGTCGGAAGTTCAAACAGATCGTCACAGCTGTCTATTTTGTCACTGTCGGAACATTGT
TCATCGTGATTTAAAAGCTGAAAATTTACTTCTGGATGCCAATCTGAATATCAAAATAGCAGATTTTGGTTTCAG
TAACCTCTTCACTCCTGGGCAGCTGCTGAAGACCTGGTGTGGCAGCCCTCCCTATGCTGCACCTGAACTCTTTGA
AGGAAAAGAATATGATGGGCCCAAAGTGGACATCTGGAGCCTTGGAGTTGTCCTCTACGTGCTTGTGTGCGGTGC
CCTGCCATTTGATGGAAGCACACTGCAGAATCTGCGGGCCCGCGTGCTGAGTGGAAAGTTCCGCATCCCATTTTT
TATGTCCACAGAATGTGAGCATTTGATCCGCCATATGTTGGTGTTAGATCCCAATAAGCGCCTCTCCATGGAGCA
GATCTGCAAGCACAAGTGGATGAAGCTAGGGGACGCCGATCCCAACTTTGACAGGTTAATAGCTGAATGCCAACA
ACTAAAGGAAGAAAGACAGGTGGACCCCCTGAATGAGGATGTCCTCTTGGCCATGGAGGACATGGGACTGGACAA
AGAACAGACACTGCAGGCGGAGCAGGCAGGTACTGCTATGAACATCAGCGTTCCCCAGGTGCAGCTGATCAACCC
AGAGAACCAAATTGTGGAGCCGGATGGGACACTGAATTTGGACAGTGATGAGGGTGAAGAGCCTTCCCCTGAAGC
ATTGGTGCGCTATTTGTCAATGAGGAGGCACACAGTGGGTGTGGCTGACCCACGCACGGAAGTTATGGAAGATCT
GCAGAAGCTCCTACCTGGCTTTCCTGGAGTCAACCCCCAGGCTCCATTCCTGCAGGTGGCCCCTAATGTGAACTT
CATGCACAACCTGTTGCCTATGCAAAACTTGCAACCAACCGGGCAACTTGAGTACAAGGAGCAGTCTCTCCTACA
GCCGCCCACGCTACAGCTGTTGAATGGAATGGGCCCCCTTGGCCGGAGGGCATCAGATGGAGGAGCCAACATCCA
ACTGCATGCCCAGCAGCTGCTGAAGCGCCCACGGGGACCCTCTCCGCTTGTCACCATGACACCAGCAGTGCCAGC
AGTTACCCCTGTGGACGAGGAGAGCTCAGACGGGGAGCCAGACCAGGAAGCTGTGCAGAGCTCTACCTACAAGGA
CTCCAACACTCTGCACCTCCCTACGGAGCGTTTCTCCCCTGTGCGCCGGTTCTCAGATGGGGCTGCGAGCATCCA
GGCCTTCAAAGCTCACCTGGAAAAAATGGGCAACAACAGCAGCATCAAACAGCTGCAGCAGGAGTGTGAGCAGCT
GCAGAAGATGTACGGGGGGGCAGATTGATGAAAGAACCCTGGAGAAGACCCAGCAGCAGCATATGTTATACCAGCA
GGAGCAGCACCATCAAATTCTCCAGCAACAAATTCAAGACTCTATCTGTCCTCCTCAGCCATCTCCACCTCTTCA
GGCTGCATGTGAAAATCAGCCAGCCCTCCTTACCCATCAGCTCCAGAGGTTAAGGATTCAGCCTTCAAGCCCACC
CCCCAACCACCCCAACAACCATCTCTTCAGGCAGCCCAGTAATAGTCCTCCCCCCATGAGCAGTGCCATGATCCA
GCCTCACGGGGCTGCATCTTCTTCCCAGTTTCAAGGCTTACCTTCCCGCAGTGCAATCTTTCAGCAGCAACCTGA
GAACTGTTCCTCTCCTCCCAACGTGGCACTAACCTGCTTGGGTATGCAGCAGCCTGCTCAGTCACAGCAGGTCAC
CATCCAAGTCCAAGAGCCTGTTGACATGCTCAGCAACATGCCAGGCACAGCTGCAGGCTCCAGTGGGCGCGGCAT
CTCCATCAGCCCCAGTGCTGGTCAGATGCAGATGCAGCACCGTACCAACCTGATGGCCACCCTCAGCTATGGGCA
CCGTCCCTTGTCCAAGCAGCTGAGTGCTGACAGTGCAGAGGCTCACAGCTTGAACGTGAATCGGTTCTCCCCTGC
TAACTACGACCAGGCGCATTTACACCCCCATCTGTTTTCGGACCAGTCCCGGGGTTCCCCCAGCAGCTACAGCCC
TTCAACAGGAGTGGGGTTCTCTCCAACCCAAGCCCTGAAAGTCCCTCCACTTGACCAATTCCCCACCTTCCCTCC
CAGTGCACATCAGCAGCCGCCACACTATACCACGTCGGCACTACAGCAGGCCCTGCTGTCTCCCACGCCGCCAGA
CTATACAAGACACCAGCAGGTACCCCACATCCTTCAAGGACTGCTTTCTCCCCGGCATTCGCTCACCGGCCACTC
GGACATCCGGCTGCCCCCAACAGAGTTTGCACAGCTCATTAAAAGGCAGCAGCAACAACGGCAGCAGCAGCAGCA
ACAGCAGCAACAGCAAGAATACCAGGAACTGTTCAGGCACATGAACCAAGGGGATGCGGGGAGTCTGGCTCCCAG
CCTTGGGGGACAGAGCATGACAGAGCGCCAGGCTTTATCTTATCAAAATGCTGACTCTTATCACCACACGATCCA
GAACAGCGACGATGCTTATGTACAGCTGGATAACTTGCCAGGAATGAGTCTCGTGGCTGGGAAAGCACTTAGCTC
TGCCCGGATGTCGGATGCAGTTCTCAGTCAGTCTTCGCTCATGGGCAGCCAGCAGTTTCAGGATGGGGAAAATGA
GGAATGTGGGGCAAGCCTGGAGGTCATGAGCACCCAGACCTGAGTGATGGCAGCCAGCATTTAAACTCCTCTTG
CTATCCATCTACGTGTATTACAGACATTCTGCTCAGCTACAAGCACCCCGAAGTCTCCTTCAGCATGGAGCAGGC
AGGCGTG**TAA**CAAGAAACAGAGAGAGAGCAAGAGGTCCCGAGTCCCTCCTAGTCTTTCATCCTGAATTTGCACA
GAGGAAAGCGGGTGCCCGGCATGGCCATCCTGATGTTGCTGGCGGGATCCCCATGCACCTTGTCCTTCTCCACTG
ATACTGGCAGCTCGGCTCCTGGACCCAAGATCCCTTGAGTGGAATTCTGCAGTGCAAGAGCCCTTCGTGGGAGCT
GTCCCATGTTTCCATGGTCCCCAGTCTCCCCTCCACTTGGTGGGGTCACCAACTACTCACCAGAAGGGGGCTTAC

FIGURE 849B

CAAGAAAGCCCTAAAAAGCTGTTGACTTATCTGCGCTTGTTCCAACTCTTATGCCCCCAACCTGCCCTACCACCA
CCACGCGCTCAGCCTGATGTGTTTACATGGTACTGTATGTATGGGAGAGCAGACTGCACCCTCCAGCAACAACAG
ATGAAAGCCAGTGAGCCTACTAACCGTGCCATCTTGCAAACTACACTTTAAAAAAAACTCATTGCTTTGTATTGT
AGTAACCAATATGTGCAGTATACGTTGAATGTATATGAACATACTTTCCTATTTCTGTTCTTTGAAAATGTCAGA
AATATTTTTTCTTTCTCATTTATGTTGAACTAAAAAGGATTAAAAAAAAAATCTCC

FIGURE 850

GAAGAGTGGAGPAGRLLPPPAPGSPAAPAAVSPAAGQPRPPAPASRGPMPARIGYYEIDRTIGKGNFAVVKRATH
LVTKAKVAIKIIDKTQLDEENLKKIFREVQIMKMLCHPHIIRLYQVMETERMIYLVTEYASGGEIFDHLVAHGRM
AEKEARRKFKQIVTAVYFCHCRNIVHRDLKAENLLLDANLNIKIADFGFSNLFTPGQLLKTWCGSPPYAAPELFE
GKEYDGPKVDIWSLGVVLYVLVCGALPFDGSTLQNLRARVLSGKFRIPFFMSTECEHLIRHMLVLDPNKRLSMEQ
ICKHKWMKLGDADPNFDRLIAECQQLKEERQVDPLNEDVLLAMEDMGLDKEQTLQAEQAGTAMNISVPQVQLINP
ENQIVEPDGTLNLDSDEGEEPSPEALVRYLSMRRHTVGVADPRTEVMEDLQKLLPGFPGVNPQAPFLQVAPNVNF
MHNLLPMQNLQPTGQLEYKEQSLLQPPTLQLLNGMGPLGRRASDGGANIQLHAQQLLKRPRGPSPLVTMTPAVPA
VTPVDEESSDGEPDQEAVQSSTYKDSNTLHLPTERFSPVRRFSDGAASIQAFKAHLEKMGNNSSIKQLQQECEQL
QKMYGGQIDERTLEKTQQQHMLYQQEQHHQILQQQIQDSICPPQPSPPLQAACENQPALLTHQLQRLRIQPSSPP
PNHPNNHLFRQPSNSPPPMSSAMIQPHGAASSSQFQGLPSRSAIFQQQPENCSSPPNVALTCLGMQQPAQSQQVT
IQVQEPVDMLSNMPGTAAGSSGRGISISPSAGQMQMQHRTNLMATLSYGHRPLSKQLSADSAEAHSLNVNRFSPA
NYDQAHLHPHLFSDQSRGSPSSYSPSTGVGFSPTQALKVPPLDQFPTFPPSAHQQPPHYTTSALQQALLSPTPPD
YTRHQQVPHILQGLLSPRHSLTGHSDIRLPPTEFAQLIKRQQQQRQQQQQQQQQQQEYQELFRHMNQGDAGSLAPS
LGGQSMTERQALSYQNADSYHHTIQNSDDAYVQLDNLPGMSLVAGKALSSARMSDAVLSQSSLMGSQQFQDGENE
ECGASLGGHEHPDLSDGSQHLNSSCYPSTCITDILLSYKHPEVSFSMEQAGV

FIGURE 851A

CGACCGCGGCGGCTGGAACCCTGATTGCTGTCCTTCAACGTGTTCATT**ATG**AAGTTATTAGTAATACTTTTGTTT
TCTGGACTTATAACTGGTTTTAGAAGTGACTCTTCCTCTAGTTTGCCACCTAAGTTACTACTAGTATCCTTTGAT
GGCTTCAGAGCTGATTATCTGAAGAACTATGAATTTCCTCATCTCCAGAATTTTATCAAAGAAGGTGTTTTGGTA
GAGCATGTTAAAAATGTTTTTATCACAAAAACATTTCCAAACCACTACAGTATTGTGACAGGCTTGTATGAAGAA
AGCCATGGCATTGTGGCTAATTCCATGTATGATGCAGTCACAAAGAAACACTTTTCTGACTCTAATGACAAGGAT
CCTTTTTGGTGGAATGAGGCAGTACCTATTTGGGTGACCAATCAGCTTCAGGAAACAGATCAAGTGCTGCTGCT
ATGTGGCCTGGTACTGATGTACCCATTCACGATACCATCTCTTCCTATTTTATGAATTACAACTCCTCAGTGTCA
TTTGAGGAAAGACTAAATAATATTACTATGTGGCTAAACAATTCGAACCCACCAGTCACCTTTGCAACACTATAT
TGGGAAGAACCAGATGCAAGTGGCCACAAATACGGACCTGAAGATAAAGAAAACATGAGCAGAGTGTTGAAAAAA
ATAGATGATCTTATCGGTGACTTAGTCCAAAGACTCAAGATGTTAGGGCTATGGGAAAATCTTAATGTGATCATT
ACAAGTGATCATGGGATGACCCAGTGTTCTCAGGACAGACTGATAAACCTGGATTCCTGCATCGATCATTCATAC
TACACTCTTATAGATTTGAGCCCAGTTGCTGCAATACTTCCCAAAATAAATAGAACAGAGGTTTATAACAAACTG
AAAAACTGTAGCCCTCATATGAATGTTTATCTCAAAGAAGACATTCCTAACAGATTTTATTACCAACATAATGAT
CGAATTCAGCCCATTATTTTGGTTGCCGATGAAGGCTGGACAATTGTGCTAAATGAATCATCACAAAAATTAGGT
GACCATGGTTATGATAATTCTTTGCCTAGTATGCATCCATTTCTAGCTGCCCACGGACCTGCATTTCACAAAGGC
TACAAGCATAGCACAATTAACATTGTGGATATTTATCCAATGATGTGCCACATCCTGGGATTAAAACCACATCCC
AATAATGGGACCTTTGGTCATACTAAGTGCTTGTTAGTTGACCAGTGGTGCATTAATCTCCCAGAAGCCATCGCG
ATTGTTATCGGTTCACTCTTGGTGTTAACCATGCTAACATGCCTCATAATAATCATGCAGAATAGACTTTCTGTA
CCTCGTCCATTTTCTCGACTTCAGCTACAAGAAGATGATGATGATCCTTTAATTGGG**TGA**CATGTGCTAGGGCTT
ATACAAAGTGTCTTTGATTAATCACAAAACTAAGAATACATCCAAAGAATAGTGTTGTAACTATGAAAAAGAATA
CTTTGAAAGACAAAGAACTTAGACTAAGCATGTTAAAATTATTACTTTGTTTTCCTTGTGTTTTGTTTCGGTGCA
TTTGCTAATAAGATAACGCTGACCATAGTAAAATTGTTAGTAAATCATTAGGTAACATCTTGTGGTAGGAAATCA
TTAGGTAACATCAATCCTAACTAGAAATACTAAAAATGGCTTTTGAGAAAAATACTTCCTCTGCTTGTATTTTGC
GATGAAGATGTGATACATCTTTAAATGAAAATATACCAAAATTTAGTAGGCATGTTTTTCTAATAAATTTATATA
TTTGTAAAGAAAACAACAGAAATCTTTATGCAATTTGTGAATTTTGTATATTAGGGAGGAAAAGCTTCCTATATT
TTTATATTTACCTTTAATTAGTTTGTATCTCAAGTACCCTCTTGAGGTAGGAAATGCTCTGTGATGGTAAATAAA
ATTGGAGCAGACAGAAAAGATATAGCAAATGAAGAAATATTTTAAGGAAACCTATTTGAAAAAAAAAGCAAAGAC
CATTTGATAAAAGCCTGAGTTGTCACCATTATGTCTTAAGCTGTTAGTCTTAAAGATTATTGTTAAAAAATTCAG
AAGAAAAGAGAGACAAGTGCTCTTCTCTCTATCTATGCTTAATGCCTTTATGTAAGTTACTTAGTTGTTTGCGTG
TGCCTGTGCAAGTGTGTTTGTGTGTGGTTGTGTGGACATTATGTGATTTACTATATAAGGAGGTCAGAGATGGAC
TGTGGCCAGGCTTCCACATTCCTGAAGCACACAGATCTCAGGAAAGGTTATTTTTGCACTTCATATTTGTTTACT
TTCTCCTAACTCACAAGTTAAAATCATAACTTAATTTCATTAACTTTATCATTTAACTCTCTCATGTTTGTTGT
AACCTGAGGTATCCAAATGCTACAGAAAAATTTATGACCCAAATACAAATCTCAATTTGACTGGGACAGAATGAG
GAATGGAGATTTTTGTATTTATCTTTGGGACTTTATGCCTTACTTTTTAGGCTATAGAATAGTTAAGAAATTTTA
AACAAAATTTAGTATCTTTTGGTCTTTCACACCATTCATATGTTAAGTGGCAGAATAGCCTTAGTGCTACCTCCA
CTTTTTTTCTCCAGTATTTGCATCACAGAAATAATCCCTCTGTTTAACATGTTTGTTCAGAGCCAAGGGTTTATT
GTGAAGAACTGTCATCCTGCCTTTGCTAGCTGGTACCTTCTAGTAATCAAAATTAATATGAAGAAACTAGGTTGT
GACAGACTAGATTATATTTAGTAGGGGAAAAATTGGGCTCAAGAACCATTCATCAGTACGTGAGACAAGCAGTTA
ATAGTATGATCTTTAAAGTTTTGACAATATAAAATAAACTTGGTAACTGTTTACAAATATAAAAGTATAATAAA
TATGCAGCCCAGTTAAATATTGATTATCTGTGATGGTAAAGAACAACAGTGGTGCCAGTCATCAAACATACAGTG
CGTCCTATTGAGTCACTGCTAATTTCTTGAGCCTGGTATTTGCTGCCTATTGTATTTGTGGTTGTTGAGAGGCAT
TTTCAAACCCTGTATAAATAATCCATGCTGTTGGTCATAAGTTAACTGTATTAAGAACAGTAAAATAAATAAAAA
CCAATAGTACTAATTTTGCTTTAAAAAAATTTCTAATTTTTTCACATAAAACAATTATCCTAAAGGTTAATAGT
TGATCGAAACAGAATAATAGAAAAATTCTACTTTAATTTCCATTAAAAAGCAAATAGCATTGACACATTTAAAGC
TTTTCATTTAAAGTAGTGGATGTTTTTGAAGTATCTAAAATAGTAGCAGAATATTTTATACTTGGTCCTTGCAAT
GGTGTGAGTTTTAATGATTGCATTATCGTGATTGGTGGTTATGAGTTTCAGAAATCTATACTTGGCATCCAACTC
ATGAGTGGATTTTATATAGGATGGAACAGGAAGGTATGTCCTGTCAGTATCTTAACCCTTTCAACAAGACATTTA
CCTATTTGTCTTTCCTTACGTTCTCAAAATATTAACTCGAATTGTAAATTAAGCAAAAATTTAAAAAGTATATGT

FIGURE 851B

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TGATGGGACAAGAAGAATAGTATTTATTTAATAAAACATATATTATATTGAACTATGTGTTAATTCATTTGTATC
TTTTAAAAAATTATCACTGTTAAAGCCATTGACTCCTTTAGTACACTGAGAAAAATCTTATAGTAAAACTAGCCT
TTCACATTAAGGTTTTGGTGTGTATTTTGTTAAATAACTAACATGCTGCTCTATTTTCTGGGTGTAGAAAGTATT
TGGCTCTAGGAAACATTTACTTGTTTGTGAAAACAATACCCCAAGGTAATAGGAAAAGTTTGAGTTAAGTGTTTT
TAATTCAGTCAGTGAATTCAGAATAAGTACATTCATGTATAACATAGGGACAGTTCTGCTGCTGTTATTTATATG
CAATTCTTCTGGTAAATAGCAATAGAATAAAACATATTTCAATGTTTGTGTATAGGTTTTATATTATTATTCCAC
TAGGAATGGCATAAGAATTTATAGATAAATTCTTGTAACATTAAAGGATTAAAATGTTTTTACATTGTTTTTGGG
TGTCTCCTTCTTGTGCCCATATCTGATAAGCTTTATGGATTATTGCATTTAATTCCTTTTATTTGGAGGGTTTTA
CTTCCTTGTTAACATATAAAGTTATAAATGAAGGACAAGGAGGAGATGGAAAATGTGTATTTATTGTTAATTCTT
AAAATAGTGTGTAAATAAAATAACATCAGTGTGCTTT
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FIGURE 852

MKLLVILLFSGLITGFRSDSSSSLPPKLLLVSFDGFRADYLKNYEFPHLQNFIKEGVLVEHVKNVFITKTFPNHY
SIVTGLYEESHGIVANSMYDAVTKKHFSDSNDKDPFWWNEAVPIWVTNQLQENRSSAAAMWPGTDVPIHDTISSY
FMNYNSSVSFEERLNNITMWLNNSNPPVTFATLYWEEPDASGHKYGPEDKENMSRVLKKIDDLIGDLVQRLKMLG
LWENLNVIITSDHGMTQCSQDRLINLDSCIDHSYYTLIDLSPVAAILPKINRTEVYNKLKNCSPHMNVYLKEDIP
NRFYYQHNDRIQPIILVADEGWTIVLNESSQKLGDHGYDNSLPSMHPFLAAHGPAFHKGYKHSTINIVDIYPMMC
HILGLKPHPNNGTFGHTKCLLVDQWCINLPEAIAIVIGSLLVLTMLTCLIIIMQNRLSVPRPFSRLQLQEDDDDP
LIG

FIGURE 853

GAGATGGGTGCCCCCATCCGCACACTGTCCTTTGGCCACCGGACATC**ATG**CCTCCCAAGAAGGATGTTCCCGTGA
AGAAACCAGCAGGGCCCTCCATCTCCAAACCTGCTGCTAAGCCAGCAGCAGCAGGGGCTCCTCCAGCCAAGACCA
AAGCTGAGCCAGCTGTCCCCCAGGCCCCTCAGAAAACCCAGGAGCCTCCAGTCGATCTCTCCAAAGTGGTGATCG
AGTTTAACAAGGACCAGCTGGAGGAGTTCAAGGAGGCCTTCGAGCTGTTTGACCGAGTGGGGGATGGCAAGATCC
TGTACAGCCAGTGTGGGGACGTGATGAGGGCCCTGGGCCAGAACCCCACCAACGCCGAGGTGCTCAAGGTCCTGG
GGAACCCCAAGAGTGATGAGCTGAAGTCGCGGCGTGTGGACTTTGAGACTTTCCTGCCCATGCTCCAGGCAGTGG
CCAAGAACCGAGGCCAAGGCACATATGAGGACTACTTGGAGGGGTTTCGTGTGTTTGACAAGGAGGGGAACGGCA
AAGTCATGGGAGCAGAGCTCAGACATGTTCTCACCACCCTTGGAGAGAAGATGACTGAGGAGGAGGTGGAGACCG
TTCTGGCAGGACACGAGGACAGCAACGGCTGCATCAACTACGAGGCCTTCTTGAAACACATCCTAAGCGTC**TGA**G
TGCTGCAGATCCAGTGGGGTCCGGACACTGGGCCCCGCAGGCGAAAGCACGTTCCAGCCACCAGGAGGCCACCTA
TTGTTTCAAAATAAAGACTGGGTTCCTC

FIGURE 854

MPPKKDVPVKKPAGPSISKPAAKPAAAGAPPAKTKAEPAVPQAPQKTQEPPVDLSKVVIEFNKDQLEEFKEAFEL
FDRVGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDELKSRRVDFETFLPMLQAVAKNRGQGTYEDYLEGF
RVFDKEGNGKVMGAELRHVLTTLGEKMTEEEVETVLAGHEDSNGCINYEAFLKHILSV

FIGURE 855

ACTTCCCCTTCCTGTACAGGGCAGGTTGTGCAGCTGGAGGCAGAGCAGTCCTCTCTGGGGAGCCTGAAGCAAAC**A**
TGGATCAAGAAACTGTAGGCAATGTTGTCCTGTTGGCCATCGTCACCCTCATCAGCGTGGTCCAGAATGGATTCT
TTGCCCATAAAGTGGAGCACGAAAGCAGGACCCAGAATGGGAGGAGCTTCCAGAGGACCGGAACACTTGCCTTTG
AGCGGGTCTACACTGCCAACCAGAACTGTGTAGATGCGTACCCCACTTTCCTCGCTGTGCTCTGGTCTGCGGGGC
TACTTTGCAGCCAAGTTCCTGCTGCGTTTGCTGGACTGATGTACTTGTTTGTGAGGCAAAAGTACTTTGTCGGTT
ACCTAGGAGAGAGAACGCAGAGCACCCCTGGCTACATATTTGGGAAACGCATCATACTCTTCCTGTTCCTCATGT
CCGTTGCTGGCATATTCAACTATTACCTCATCTTCTTTTTCGGAAGTGACTTTGAAAACTACATAAAGACGATCT
CCACCACCATCTCCCCTCTACTTCTCATTCCC**TAA**CTCTCTGCTGAATATGGGGTTGGTGTTCTCATCTAATCAA
TACCTACAAGTCATCATAATTCAGCTCTTGAGAGCATTCTGCTCTTCTTTAGATGGCTGTAAATCTATTGGCCAT
CTGGGCTTCACAGCTTGAGTTAACCTTGCTTTTCCGGGAACAAAATGATGTCATGTCAGCTCCGCCCCTTGAACA
TGACCGTGGCCCCAAATTTGCTATTCCCATGCATTTTGTTTGTTTCTTCACTTATCCTGTTCTCTGAAGATGTTT
TGTGACCAGGTTTGTGTTTTCTTAAAATAAAATGCAGAGACATGTTTT

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FIGURE 856

MDQETVGNVVLLAIVTLISVVQNGFFAHKVEHESRTQNGRSFQRTGTLAFERVYTANQNCVDAYPTFLAVLWSAG
LLCSQVPAAFAGLMYLFVRQKYFVGYLGERTQSTPGYIFGKRIILFLFLMSVAGIFNYYLIFFFGSDFENYIKTI
STTISPLLLIP

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FIGURE 857

GTCTCCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAG**ATG**TCAGCCCAG
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCCTCGGCAGCCTGATC
TTCTGCTTCGGCATCTGGATCCTCATCGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTCACCATGGGCATCGCCCTCCTGGGTTGTGTGGGGGCC
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCCTG
GGAATCCTCATCTCCACTCAGCGGGCCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG
TACGGCACCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGACTATGTGCAGTTCCAGCTGCGCTGCTGCGGC
TGGCACTACCCGCAGGACTGGTTCCAAGTCCTCATCCTGAGAGGTAACGGGTCGGAGGCGCACCGCGTGCCCTGC
TCCTGCTACAACTTGTCGGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCCTGTGCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA
TACCGT**TAG**GCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT
AAATATTTGTTTAATCCCCAGTTCGCCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG
CCCCTGCTGCTGTCACCTCTCCCACGGGACCTGGGGCTTTCGTCCACAGCTTCCTGTCCCCATCTGTCGGCCTAC

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FIGURE 858

MSAQESCLSLIKYFLFVFNLFFFVLGSLIFCFGIWILIDKTSFVSFVGLAFVPLQIWSKVLAISGIFTMGIALLG
CVGALKELRCLLGLYFGMLLLLFATQITLGILISTQRAQLERSLRDVVEKTIQKYGTNPEETAAEESWDYVQFQL
RCCGWHYPQDWFQVLILRGNGSEAHRVPCSCYNLSATNDSTILDKVILPQLSRLGHLARSRHSADICAVPAESHI
YREGCAQGLQKWLHNNLISIVGICLGVGLLELGFMTLSIFLCRNLDHVYNRLARYR

FIGURE 859

AGCCGAATAGAGCCGGAGAGACCCGAGTATGACCGGAGAAGCCCAGGCCGGCCGGAAGAGGAGCCGAGCGCGGCC
GGAAGGAACCGAGCCCGTCCGAAGGGAGCGGAGCGCAGCCTGGCCTGGGGCCCGGTCGAGCCCGCGCC**ATG**GCGG
CCGAGGCGACAGCTGTGGCCGGAAGCGGGGCTGTTGGCGGCTGCCTGGCCAAAGACGGCTTGCAGCAGTCTAAGT
GCCCGGACACTACCCCAAAACGGCGGCGCGCCTCGTCGCTGTCGCGTGACGCCGAGCGCCGAGCCTACCAATGGT
GCCGGGAGTACTTGGGCGGGGCCTGGCGCCGAGTGCAGCCCGAGGAGCTGAGGGTTTACCCCGTGAGCGGAGGCC
TCAGCAACCTGCTCTTCCGCTGCTCGCTCCCGGACCACCTGCCCAGCGTTGGCGAGGAGCCCCGGGAGGTGCTTC
TGCGGCTGTACGGAGCCATCTTGCAGGGCGTGGACTCCCTGGTGCTAGAAAGCGTGATGTTCGCCATACTTGCGG
AGCGGTCGCTGGGGCCCCAGCTGTACGGAGTCTTCCCAGAGGGCCGGCTGGAACAGTACATCCCAAGTCGGCCAT
TGAAAACTCAAGAGCTTCGAGAGCCAGTGTTGTCAGCAGCCATTGCCACGAAGATGGCGCAATTTCATGGCATGG
AGATGCCTTTCACCAAGGAGCCCCACTGGCTGTTTGGGACCATGGAGCGGTACCTAAAACAGATCCAGGACCTGC
CCCCAACTGGCCTCCCTGAGATGAACCTGCTGGAGATGTACAGCCTGAAGGATGAGATGGGCAACCTCAGGAAGT
TACTAGAGTCTACCCCATCGCCAGTCGTCTTCTGCCACAATGACATCCAGGAAGGGAACATCTTGCTGCTCTCAG
AGCCAGAAAATGCTGACAGCCTCATGCTGGTGGACTTCGAGTACAGCAGTTATAACTATAGGGGCTTTGACATTG
GGAACCATTTTGTGAGTGGGTTTATGATTATACTCACGAGGAATGGCCTTTCTACAAAGCAAGGCCCACAGACT
ACCCCACTCAAGAACAGCAGTTGCATTTATTCGTCATTACCTGGCAGAGGCAAAGAAAGGTGAGACCCTCTCCC
AAGAGGAGCAGAGAAAACTGGAAGAAGATTTGCTGGTAGAAGTCAGTCGGTATGCTCTGGCATCCCATTTCTTCT
GGGGTCTGTGGTCCATCCTCCAGGCATCCATGTCCACCATAGAATTTGGTTACTTGGACTATGCCCAGTCTCGGT
TCCAGTTCTACTTCCAGCAGAAGGGGCAGCTGACCAGTGTCCACTCCTCATCC**TGA**CTCCACCCTCCCACTCCTT
GGATTTCTCCTGGAGCCTCCAGGGCAGGACCTTGGAGGGAGGAACAACGAGCAGAAGGCCCTGGCGACTGGGCTG
AGCCCCCAAGTGAAACTGAGGTTCAGGAGACCGGCCTGTTCCTGAGTTTGAGTAGGTCCCCATGGCTGGCAGGCC
AGAGCCCCGTGCTGTGTATGTAACACAATAAACAAGCTTC

FIGURE 860

MAAEATAVAGSGAVGGCLAKDGLQQSKCPDTTPKRRRASSLSRDAERRAYQWCREYLGGAWRRVQPEELRVYPVS
GGLSNLLFRCSLPDHLPSVGEEPREVLLRLYGAILQGVDSLVLESVMFAILAERSLGPQLYGVFPEGRLEQYIPS
RPLKTQELREPVLSAAIATKMAQFHGMEMPFTKEPHWLFGTMERYLKQIQDLPPTGLPEMNLLEMYSLKDEMGNL
RKLLESTPSPVVFCHNDIQEGNILLLSEPENADSLMLVDFEYSSYNYRGFDIGNHFCEWVYDYTHEEWPFYKARP
TDYPTQEQQLHFIRHYLAEAKKGETLSQEEQRKLEEDLLVEVSRYALASHFFWGLWSILQASMSTIEFGYLDYAQ
SRFQFYFQQKGQLTSVHSSS

FIGURE 861

CCGGCTCGGAGTGTGATCTAAGCAGGTCGCGTACCTTCCTCAGGTGACTCCGGCCACAGCCCATTGTCCGCGGCC
ACCGGCGGAGTTTAGCCGCAGACCTCGAAGCGCCCCGGGGTCCTTCCCGAACGGCAGCGGCTGCGGCGGGTCC**AT
G**GAGAAGGGCCCTGTGCGGGCACCGGCGGAGAAGCCGCGGGGCGCCAGGTGCAGCAATGGGTTCCCCGAGCGGGA
TCCGCCGCGGCCCGGGCCCAGCAGGCCGGCGGAGAAGCCCCCGCGGCCCGAGGCCAAGAGCGCGCAGCCCGCGGA
CGGCTGGAAGGGCGAGCGGCCCCGCAGCGAGGAGGATAACGAGCTGAACCTCCCTAACCTGGCAGCCGCCTACTC
GTCCATCCTGAGCTCGCTGGGCGAGAACCCCCAGCGGCAAGGGCTGCTCAAGACGCCCTGGAGGGCGGCCTCGGC
CATGCAGTTCTTCACCAAGGGCTACCAGGAGACCATCTCAGATGTCCTAAACGATGCTATATTTGATGAAGATCA
TGATGAGATGGTGATTGTGAAGGACATAGACATGTTTTCCATGTGTGAGCATCACTTGGTTCCATTTGTTGGAAA
GGTCCATATTGGTTATCTTCCTAACAAGCAAGTCCTTGGCCTCAGCAAACTTGCGAGGATTGTAGAAATCTATAG
TAGAAGACTACAAGTTCAGGAGCGCCTTACAAAACAAATTGCTGTAGCAATCACGGAAGCCTTGCGGCCTGCTGG
AGTCGGGGTAGTGGTTGAAGCAACACACATGTGTATGGTAATGCGAGGTGTACAGAAAATGAACAGCAAAACTGT
GACCAGCACAATGTTGGGTGTGTTCCGGGAGGATCCAAAGACTCGGGAAGAGTTCCTGACTCTCATTAGGAGC**TG
A**GCTTCATTCAGTGTGTGTGCGTTGGTTGCCGATCGTACTGCCAGTAGCATTGTCTGTCTGTCCGGTCTTGTTTG
TACATTCCATTTTCAATTGTTACAGATGTGAACTTTATTCCTTGTCACTAATTATATTTAAAATTATTTCTAGGA
AGTCAAATAAATATAATAAAGGGTTGAGCCTCTACTTTCTTCTTGCCACCTTTTTGTGGCAATATTAAAGTGAAC
TGCTAATAGTGTAAGTATGTGCACAAAACCACTGCCAGATAACCAGAGGGGCCTGGGAAGGGAGAAGAATTAGTG
TATTTTTTTCAAATAGTACAGTAATTTGCCTCATAAGCATAGGAGCATTGGGAATGAGAGGGAACTGTGCCCAGT
ATACTGTTTTTTTTCTTCCTCCAATAAAAGTGGTGTAGTGCCGAAAGTGCTAAAATATTTAGTGCGGTATTGCTC
TGTGAATTCAAGTTCAACAGACTTCACTTTGGTCATGTTTATTAAACCACCAGTGACATTTAAAAATATATTTTT
AGCAGTCGTAATGTTAGTCACCAAGGGAAGGTGGTGGAATGTCTATGTTTTTGATTTTACTGTGAGTTAAAAAGG
CACATTTCTACCTTCTATTGTTTTTAAATTCAAGAATAGGGAATTAGTTCCTGGTGTTGTTTACGAGTGTATTCT
CGTGTCAACATACAGGGATTTAGACATTTAACTCTCTGTGCCTTGATAAGAATATCATTTAGAGTGTAGATACTT
TTGCCTTTTTAAAAAAGCCATTATTTTATGAGACTTAGTACTCACACTGCAAATAACTAGTCAGCTCAGTTTTAA
CTTTATAGGTTTATTGAGTTTCCTTTGTGTGATCCATGTAGATGCCTCAAAATGTTTCTTCTTCTTCTTTTTTTT
AATCTTATAAGATATTTTTCTAAGTATTTCCAGAAACATTTGAGAGTGCCCATCATTTTCAGGTCTGCAGAACCA
TAGCTTCCACGCACCTGAACGAGCACAGAATGAACTGACGGTGGAAGACATTATGAGCTGTGTCCAACGTTTTAA
CCAAAGCGTATCGTACCAACGATCTGTGAAAATGCACTGGAAGCTTCTGGTCCCGGTTTCCTTTGTGGTCTATGT
GGGTCTTGTCCTCATTGTAACTCCGTATAGATGGTATAGGTATTTAATCCTGGAAGCTGTTGCCTTATTAATGA
TTATCTTAAAATTTCCTCCATTGGGGCAGCGTGGGCCAAATTAAAACAAACAAAACCGCAACTCCTCCACAGAAA
CACAAACACAGTTATTCCATGAAGTTTAGTATTTGGTTGACATAGTGCTCTTCAAATTCATCCCATTACCCTAAA
AGTAATAACTTTGATGCTTGCTTTAACTTTAGTCCCATCTCTGCCACTTTGATGCTATTGGGTTATGATGGGGC
AAGATGGCAGAGGTATTGGGTTTTTTTGTTTTTTTCCATTCCTCTCTACTTCTGTTTCCTAGCTTTTTCTTTCTG
GAGTTTAAGTACAGTGATGGTTGGCTTGAGTACCTTTTTAAATCTAGCCCAGTATAAACATTAGCCTGCTTAATA
TTTAGACATTTATAGGTAGAATTCTGAGCACTCAACTCATGTTTGGCATTTTAAAGTAAAAACAAGTGTGACTTC
GAGGACCAAAGAAATTGTCAGCTATACATTTATCTTTATGAACTCATTTATATTCCTTTTTAATGACTCGTTGTT
CTAACATTTCCTAGAAGTGTTCTTATAAAGGTCTAATGTATCCACAGGCTGTTGTCTTATTAGTAAATGCAAAGT
AATGACTTTGTCTGTTTTACTCTAGTCTTTAGTACTTCAAAATTACCTTTTCATATCCATGATCTTGAGTCCATT
TGGGGGATTTTTAAGAATTTGATGTATTTCAATACACTGTTCAAAATTAAATTGTTTAATTTTATGTATGAGTAT
GTATGTTCCTGAAGTTGGTCCTATTTAAATTATTAAACTATTGTAACTTTAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 862

MEKGPVRAPAEKPRGARCSNGFPERDPPRPGPSRPAEKPPRPEAKSAQPADGWKGERPRSEEDNELNLPNLAAAY
SSILSSLGENPQRQGLLKTPWRAASAMQFFTKGYQETISDVLNDAIFDEDHDEMVIVKDIDMFSMCEHHLVPFVG
KVHIGYLPNKQVLGLSKLARIVEIYSRRLQVQERLTKQIAVAITEALRPAGVGVVVEATHMCMVMRGVQKMNSKT
VTSTMLGVFREDPKTREEFLTLIRS

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FIGURE 863

GCGCGGGCGGCTGGGGA**ATG**GCTGCTGCCATGGTGCCGGGGCGCAGCGAGAGCTGGGAGCGCGGGGAGCCTGGCC
GCCCGGCCCTGTACTTCTGCGGGAGCATTCGCGGCGGACGCGAGGACAGGACGCTGTACGAGCGGATCGTGTCTC
GGCTGCGGCGATTCGGGACAGTGCTCACCGAGCACGTGGCGGCCGCCGAGCTGGGCGCGCGCGGGGAAGAGGCTG
CTGGGGGTGACAGGCTCATCCATGAGCAGGACCTGGAGTGGCTGCAGCAGGCGGACGTGGTCGTGGCAGAAGTGA
CACAGCCATCCTTGGGTGTAGGCTATGAGCTGGGCCGGGCCGTGGCCTTTAACAAGCGGATCCTGTGCCTGTTCC
GCCCGCAGTCTGGCCGCGTGCTTTCGGCCATGATCCGGGGAGCAGCAGATGGCTCTCGGTTCCAGGTGTGGGACT
ATGAGGAGGGAGAGGTGGAGGCCCTGCTGGATCGATACTTCGAGGCTGATCCTCCAGGGCAGGTGGCTGCCTCCC
CTGACCCAACCACT**TGA**CTTAATCTCACTTTCTTAAATTCTTCTATTCTCAGACACTGCTCTAGTACCATTCCTT
CCTCTTAGCCCCAGGAGCAAATTAAAAGGTACAGTTAAAATCCT

FIGURE 864

MAAAMVPGRSESWERGEPGRPALYFCGSIRGGREDRTLYERIVSRLRRFGTVLTEHVAAAELGARGEEAAGGDRL
IHEQDLEWLQQADVVVAEVTQPSLGVGYELGRAVAFNKRILCLFRPQSGRVLSAMIRGAADGSRFQVWDYEEGEV
EALLDRYFEADPPGQVAASPDPTT

FIGURE 865

CGCAGGGGTCCCCCGGCCGCCGCG**ATG**CAGAAATACGAGAAACTGGAAAAGATTGGGGAAGGCACCTACGGAACT
GTGTTCAAGGCCAAAAACCGGGAGACTCATGAGATCGTGGCTCTGAAACGGGTGAGGCTGGATGACGATGATGAG
GGTGTGCCGAGTTCCGCCCTCCGGGAGATCTGCCTACTCAAGGAGCTGAAGCACAAGAACATCGTCAGGCTTCAT
GACGTCCTGCACAGCGACAAGAAGCTGACTTTGGTTTTTGAATTCTGTGACCAGGACCTGAAGAAGTATTTTGAC
AGTTGCAATGGTGACCTCGATCCTGAGATTGTAAAGTCATTCCTCTTCCAGCTACTAAAAGGGCTGGGATTCTGT
CATAGCCGCAATGTGCTACACAGGGACCTGAAGCCCCAGAACCTGCTAATAAACAGGAATGGGGAGCTGAAATTG
GCTGATTTTGGCCTGGCTCGAGCCTTTGGGATTCCCGTCCGCTGTTACTCAGCTGAGGTGGTCACACTGTGGTAC
CGCCCACCGGATGTCCTCTTTGGGGCCAAGCTGTACTCCACGTCCATCGACATGTGGTCAGCCGGCTGCATCTTT
GCAGAGCTGGCCAATGCTGGGCGGCCTCTTTTTCCCGGCAATGATGTCGATGACCAGTTGAAGAGGATCTTCCGA
CTGCTGGGGACGCCCACCGAGGAGCAGTGGCCCTCTATGACCAAGCTGCCAGACTATAAGCCCTATCCGATGTAC
CCGGCCACAACATCCCTGGTGAACGTCGTGCCCAAACTCAATGCCACAGGGAGGGATCTGCTGCAGAACCTTCTG
AAGTGTAACCCTGTCCAGCGTATCTCAGCAGAAGAGGCCCTGCAGCACCCCTACTTCTCCGACTTCTGTCCGCCC
TAGGCCCCGGGACCCCGCCTCCAGGCTGGGCCTGGCCTATTTAAGCCCCCTCTTGAGAGGGTGAGACAGTGGGG
GTGCCTGG

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FIGURE 866

MQKYEKLEKIGEGTYGTVFKAKNRETHEIVALKRVRLDDDDEGVPSSALREICLLKELKHKNIVRLHDVLHSDKK
LTLVFEFCDQDLKKYFDSCNGDLDPEIVKSFLFQLLKGLGFCHSRNVLHRDLKPQNLLINRNGELKLADFGLARA
FGIPVRCYSAEVVTLWYRPPDVLFGAKLYSTSIDMWSAGCIFAELANAGRPLFPGNDVDDQLKRIFRLLGTPTEE
QWPSMTKLPDYKPYPMYPATTSLVNVVPKLNATGRDLLQNLLKCNPVQRISAEEALQHPYFSDFCPP

FIGURE 867A

TCTTTAGAGCAAAAGGTGAATCAAAGGAGAGTCCCAGAAAACCTGTGACTGTTGAAGAAAATTCATCTGTGAATT
TTTATATTCAAGGAGTCAGTATTTATATTCATCTTTTAAACTGGGAAGATTTATATTTTACTTTAAAACTTCTTG
ATAATAATTTACA**ATG**AATGGACACAGTGATGAAGAAAGTGTTAGAAACAGTAGTGGAGAATCAAGCCAGTCGGA
TGATGATTCTGGGTCAGCTTCAGGCTCTGGATCTGGTTCGAGTTCTGGAAGCAGTAGTGATGGAAGCAGTAGCCA
GTCAGGTAGCAGTGACTCTGACTCCGGATCTGAATCAGGCAGTCAGTCAGAGTCTGAGTCAGACACTTCCCGAGA
AAACAAAGTTCAAGCAAAACCACCGAAAGTTGATGGAGCTGAGTTTTGGAAATCTAGTCCTAGTATTCTGGCCGT
TCAGAGATCTGCAATCCTCAAGAAGCAGCAACAGCAGCAGCAGCAACAACAACATCAAGCCTCATCTAATAGCGG
ATCAGAAGAGGATTCCTCTAGCAGTGAAGATTCCGATGACTCATCAAGTGAGGTCAAAAGGAAAAAGCATAAAGA
TGAAGATTGGCAAATGTCTGGGTCAGGATCTCCATCTCAGTCTGGTTCAGATTCAGAATCTGAAGAAGAGAGAGA
GAAAAGCAGTTGTGATGAAACAGAATCTGATTATGAGCCAAAAAACAAAGTCAAAAGCAGAAAACCTCAAAATAG
ATCTAAGTCAAAAAATGGAAAGAAGATTCTTGGACAAAAAAAGAGACAGATTGATTCATCTGAGGAGGATGATGA
TGAAGAAGATTATGATAATGATAAAAGAAGTTCTCGTCGCCAAGCAACTGTTAATGTTAGCTATAAGGAGGATGA
AGAAATGAAAACAGATTCTGATGACCTACTGGAAGTCTGTGGAGAGGATGTTCCTCAACCTGAGGAAGAGGAATT
TGAAACCATAGAAAGATTTATGGATTGTCGGATTGGGAGAAAAGGAGCTACTGGTGCTACTACAACCATCTATGC
AGTTGAAGCAGATGGTGACCCAAATGCAGGCTTTGAAAAAAACAAAGAACCAGGAGAGATTCAGTATTTAATTAA
ATGGAAAGGATGGTCCCATATCCACAACACTTGGGAGACAGAAGAAACCCTCAAGCAGCAGAATGTTAGAGGAAT
GAAAAAATTGGATAATTATAAGAAAAAAGATCAGGAAACAAAAGATGGTTGAAAAATGCCTCTCCAGAAGATGT
GGAATATTATAATTGCCAGCAAGAACTTACAGATGATCTACATAAACAGTATCAAATAGTGGGACGTATAATTGC
TCATTCCAATCAAAAGTCAGCAGCTGGTTATCCTGATTATTACTGCAAATGGCAGGGCCTTCCATACTCAGAGTG
CAGCTGGGAAGATGGAGCTCTCATTTCCAAAAAGTTTCAAGCATGCATTGATGAGTATTTTAGCAGGAACCAATC
AAAAACCACTCCTTTTAAAGATTGCAAAGTATTAAAACAAAGGCCAAGGTTTGTAGCCCTGAAGAAGCAGCCATC
CTATATTGGAGGACATGAGGGCTTAGAATTAAGAGATTATCAACTGAATGGTTTAAATTGGCTTGCTCATTCTTG
GTGCAAAGGAAATAGTTGCATACTCGCTGATGAAATGGGCCTTGGAAAAACAATACAGACGATCTCATTTCTGAA
TTATTTGTTTCATGAACATCAATTATATGGACCTTTTTTATTGGTAGTACCGCTCTCCACTCTTACTTCCTGGCA
AAGGGAAATTCAGACTTGGGCTTCTCAAATGAATGCTGTGGTTTATTTAGGTGACATTAACAGCAGAAACATGAT
AAGAACTCATGAATGGACGCATCATCAGACCAAACGGTTAAAATTTAATATATTGTTAACAACTTATGAAATTTT
ATTAAAAGATAAGGCATTCCTTGGAGGTCTAAATTGGGCATTTATAGGTGTTGATGAAGCACACCGATTAAAGAA
TGATGACTCCCTTCTGTATAAAACTTTAATAGATTTTAAATCCAATCATCGTCTCCTTATCACTGGAACTCCTCT
ACAGAATTCCCTCAAAGAGCTCTGGTCTTTGCTACATTTCATTATGCCAGAAAAGTTTTCTTCCTGGGAAGATTT
TGAAGAAGAACATGGCAAAGGGAGAGAATATGGTTATGCAAGCCTTCACAAGGAGCTTGAGCCATTTCTGTTACG
CCGAGTTAAGAAAGATGTGGAAAAATCTCTTCCTGCCAAGGTTGAGCAGATTTTAAGAATGGAAATGAGTGCTTT
ACAGAAACAATATTACAAATGGATTTTAACTAGGAATTACAAAGCCCTCAGCAAAGGTTCCAAGGGCAGTACCTC
AGGCTTTTTGAACATTATGATGGAGCTAAAGAAATGTTGTAACCATTGCTACCTCATTAAACCACCAGATAATAA
TGAATTCTATAATAAACAGGAGGCCTTACAACACTTAATTCGTAGTAGCGGAAAATTGATTCTTCTTGACAAGCT
ATTAATTCGCCTAAGAGAACGAGGCAATCGAGTTCTTATTTTTTCACAAATGGTGCGGATGTTAGATATACTTGC
AGAATATTTGAAATATCGTCAATTCCCCTTTCAAAGATTAGATGGATCAATAAAAGGAGAACTGAGGAAACAAGC
TCTAGATCATTTTAATGCTGAGGGATCAGAGGATTTTTGCTTTTTGCTGTCCACAAGAGCTGGAGGTCTAGGGAT
TAATTTAGCCTCTGCTGACACTGTTGTTATATTTGATTCCGATTGGAATCCACAGAATGATCTTCAGGCACAGGC
TAGAGCCCATCGAATTGGCCAAAAGAAACAGGTGAATATTTATCGTCTAGTTACAAAGGGATCAGTTGAAGAAGA
TATTCTTGAAAGGGCGAAAAAGAAGATGGTTTTAGATCATCTTGTAATTCAAAGAATGGACACAACTGGGAAGAC
AGTACTACATACAGGTTCTGCCCCATCAAGTTCTACTCCTTTCAATAAAGAAGAGTTATCAGCCATTTTAAAGTT
TGGTGCTGAAGAACTTTTTAAGGAACCTGAAGGAGAAGAACAAGAGCCCCAGGAAATGGATATAGATGAAATCTT
GAAGAGAGCTGAAACTCATGAAAATGAACCAGGTCCTTTAACTGTAGGAGATGAATTGCTTTCCCAGTTCAAGGT
TGCCAACTTCTCAAATATGGATGAGGATGACATTGAGTTGGAACCTGAAAGAAATTCAAAGAATTGGGAGGAAAT
TATTCCAGAAGATCAAAGAAGACGATTAGAAGAAGAAGAAAGACAAAAGGAACTTGAAGAAATTTATATGCTCCC
AAGAATGAGAAATTGTGCAAAACAGATTAGTTTCAATGGAAGTGAAGGGAGGCGCAGTAGAAGTAGGAGATACTC
TGGATCTGATAGTGATTCCATCTCAGAAGGGAAAAGGCCAAAGAAACGTGGAAGACCACGGACTATTCCTCGGGA
GAATATTAAAGGATTTAGTGATGCAGAAATTAGGCGGTTTATCAAGAGCTATAAGAAATTTGGTGGTCCTCTGGA

FIGURE 867B

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AAGATTAGATGCAATTGCTCGAGATGCTGAGTTAGTTGATAAGTCAGAAACAGACCTTAGACGACTGGGAGAATT
GGTACATAATGGTTGCATTAAAGCATTAAAGGATAGTTCTTCAGGAACAGAACGAACAGGTGGTAGACTCGGAAA
AGTGAAGGGTCCAACATTCCGAATATCAGGAGTACAGGTGAATGCCAAACTAGTCATCTCCCATGAAGAAGAATT
AATACCTTTGCACAAATCCATTCCTTCTGATCCAGAAGAAAGAAAGCAGTATACTATCCCATGCCACACAAAGGC
AGCTCATTTTGATATAGACTGGGGCAAAGAAGATGATTCCAATTTGTTAATTGGCATCTATGAATATGGATATGG
AAGCTGGGAAATGATTAAAATGGATCCTGACCTCAGTCTAACACACAAGATTCTTCCAGATGATCCCGATAAAAA
ACCACAAGCAAAACAGTTGCAGACCCGTGCAGACTACCTCATCAAATTACTTAGTAGAGATCTTGCAAAAAAAGA
AGCTCTTTCTGGTGCGGGAAGTTCAAAGAGGAGAAAAGCAAGAGCTAAGAAGAATAAAGCAATGAAGTCTATAAA
AGTGAAAGAGGAAATAAAGAGTGATTCTTCTCCTCTGCCTTCAGAGAAGTCTGATGAAGATGATGATAAATTGAG
TGAATCCAAGTCTGATGGTAGGGAAAGATCCAAGAAATCTTCAGTGTCAGATGCTCCAGTTCATATCACGGCAAG
TGGTGAACCAGTTCCCATTTCTGAAGAATCTGAAGAGCTGGATCAGAAGACATTCAGCATTTGTAAAGAAAGAAT
GAGGCCTGTTAAAGCAGCTTTGAAACAACTTGATAGGCCTGAGAAAGGCCTTTCAGAAAGAGAACAACTAGAACA
TACTAGACAATGTTAATAAAAATTGGAGACCATATCACAGAATGTCTAAAAGAGTATACAAATCCTGAACAAAT
TAAGCAATGGAGAAAAAACCTGTGGATTTTTGTATCTAAGTTTACTGAATTTGATGCAAGAAAATTACATAAATT
ATATAAGCATGCTATTAAAAAACGGCAGGAGTCTCAGCAAAACAGTGATCAAAACAGCAACTTGAATCCTCACGT
GATTAGAAATCCAGATGTGGAAAGATTAAAAGAGAATACAAATCACGATGATAGCAGCAGGGACAGTTATTCCTC
TGATAGACACTTAACTCAGTACCATGATCATCATAAAGACCGACATCAGGGAGATTCTTACAAAAAAAGTGATTC
CAGGAAAAGACCCTATTCTTCTTTTAGTAATGGTAAAGACCATCGTGATTGGGATCACTACAAGCAAGACAGCAG
ATATTACAGTGACAGAGAGAAACACAGAAACTGGATGATCACAGGAGTAGAGATCACAGGTCAAATTTGGAAGG
AAGTTTAAAAGATAGATCTCATTCTGATCATCGTTCTCACTCAGATCATCGGTTACATTCAGACCACCGGTCAAG
TTCTGAATATACGCACCATAAATCTTCCAGGGATTATAGGTATCACTCAGACTGGCAAATGGACCACAGAGCTTC
CAGCAGTGGCCCTAGGTCACCACTAGATCAGAGATCTTATGGCTCCAGATCTCCATTTGAACATTCAGTTGAACA
CAAAAGTACACCGGAGCATACCTGGAGTAGTCGGAAAACA**TAA**CAAAAACTGATACTTCGTCTTTCTGGACTTTT
CTTTTAGCCATATATCATAAACCAACACAGTAATTGCCTTACATGACTTGAAAGATATAAACAGATCTTCTATCA
GTAGCAGTATTGTTACTTCTTTCCAGGATGCAAGGTCTATTATCCCAACAGAAGAGAAAATATTTTTATATTTAA
GGATTATGCTGCACTGTACTACAAAATTGTAGTACTTTTTTTTGTTTTCTTTTTAAAGAAATGGAAAATGTTTA
CTATTACAGGGACCTCAACACTGCCCTCCCATACAGGCTGGATAAAACTGTTTTTAAGTCAGTGATTTTAGACTG
ACCTCCATTTAAATTATGTTTATATATGAACTTTACTCTGACCTGTGATCATGTTTCAGGAAGGAATGAAAGAGA
GTTCTTTCTTAATAAAGAAAACACTCAAGGACTTTGTTCATTTCCAAAGCTACTTGTTTACATTGTACACTGCG
ACCACCTTGCCGCTTTTCATCACAAGCTTGAATATTTAAATTCTGTACTTATATCTGTAAAATAGCCAGGAATTT
CCTGTTTGTGATCTATTATGCCTTTTTACAAAAAAAATGGCTGTAAATTATTGTAAATATTAAAGGAACTTTCCT
TACAAAAAAAAAAAAAAAAAAAAA
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FIGURE 868

MNGHSDEESVRNSSGESSQSDDDSGSASGSGSGSSSGSSSDGSSSQSGSSDSDSGSESGSQSESESDTSRENKVQ
AKPPKVDGAEFWKSSPSILAVQRSAILKKQQQQQQQQQHQASSNSGSEEDSSSSEDSDDSSSEVKRKKHKDEDWQ
MSGSGSPSQSGSDSESEEEREKSSCDETESDYEPKNKVKSRKPQNRSKSKNGKKILGQKKRQIDSSEEDDDEEDY
DNDKRSSRRQATVNVSYKEDEEMKTDSDDLLEVCGEDVPQPEEEEFETIERFMDCRIGRKGATGATTTIYAVEAD
GDPNAGFEKNKEPGEIQYLIKWKGWSHIHNTWETEEETLKQQNVRGMKKLDNYKKKDQETKRWLKNASPEDVEYYN
CQQELTDDLHKQYQIVGRIIAHSNQKSAAGYPDYYCKWQGLPYSECSWEDGALISKKFQACIDEYFSRNQSKTTP
FKDCKVLKQRPRFVALKKQPSYIGGHEGLELRDYQLNGLNWLAHSWCKGNSCILADEMGLGKTIQTISFLNYLFH
EHQLYGPFLLVVPLSTLTSWQREIQTWASQMNAVVYLGDINSRNMIRTHEWTHHQTKRLKFNILLTTYEILLKDK
AFLGGLNWAFIGVDEAHRLKNDDSLLYKTLIDFKSNHRLLITGTPLQNSLKELWSLLHFIMPEKFSSWEDFEEEH
GKGREYGYASLHKELEPFLLRRVKKDVEKSLPAKVEQILRMEMSALQKQYYKWILTRNYKALSKGSKGSTSGFLN
IMMELKKCCNHCYLIKPPDNNEFYNKQEALQHLIRSSGKLILLDKLLIRLRERGNRVLIFSQMVRMLDILAEYLK
YRQFPFQRLDGSIKGELRKQALDHFNAEGSEDFCFLLSTRAGGLGINLASADTVVIFDSDWNPQNDLQAQARAHR
IGQKKQVNIYRLVTKGSVEEDILERAKKKMVLDHLVIQRMDTTGKTVLHTGSAPSSSTPFNKEELSAILKFGAEE
LFKEPEGEEQEPQEMDIDEILKRAETHENEPGPLTVGDELLSQFKVANFSNMDEDDIELEPERNSKNWEEIIPED
QRRRLEEEERQKELEEIYMLPRMRNCAKQISFNGSEGRRSRSRRYSGSDSDSISEGKRPKKRGRPRTIPRENIKG
FSDAEIRRFIKSYKKFGGPLERLDAIARDAELVDKSETDLRRLGELVHNGCIKALKDSSSGTERTGGRLGKVKGP
TFRISGVQVNAKLVISHEEELIPLHKSIPSDPEERKQYTIPCHTKAAHFDIDWGKEDDSNLLIGIYEYGYGSWEM
IKMDPDLSLTHKILPDDPDKKPQAKQLQTRADYLIKLLSRDLAKKEALSGAGSSKRRKARAKKNKAMKSIKVKEE
IKSDSSPLPSEKSDEDDDKLSESKSDGRERSKKSSVSDAPVHITASGEPVPISEESEELDQKTFSICKERMRPVK
AALKQLDRPEKGLSEREQLEHTRQCLIKIGDHITECLKEYTNPEQIKQWRKNLWIFVSKFTEFDARKLHKLYKHA
IKKRQESQQNSDQNSNLNPHVIRNPDVERLKENTNHDDSSRDSYSSDRHLTQYHDHHKDRHQGDSYKKSDSRKRP
YSSFSNGKDHRDWDHYKQDSRYYSDREKHRKLDDHRSRDHRSNLEGSLKDRSHSDHRSHSDHRLHSDHRSSSEYT
HHKSSRDYRYHSDWQMDHRASSSGPRSPLDQRSYGSRSPFEHSVEHKSTPEHTWSSRKT

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FIGURE 869

CCGGAGCGGGGATCACCTTAACTTGACTGTGGTCCCCCAGCCCTCCAAGAAATGCCCATAAACCAAGGAGGAGAG
GGTAAAAAATAGAAGAATACATGGAATTGGGGAGAAGAATGGGAAAAAAGATGGGAGTGACTGCATAATGTCAGC
ATTTTGTGCTTTTGGCTCAGCATTTGGATTGGATGGAGGATTTTCATCCTGAAACCAGCCCTCCGTCGCCACCGA
CCATGGAATAATTGTCTTCCACGAAACTCTTCCCTGGTGCCAAAAAGGGTTTTATGTATATATTTGAGAGCTCCA
CATCCCTGGATCTGAATCCTCCACTTCCCACTGGAACCATGCCCCTCCCAGTCCCGTTTCTCCCCTCTAGGGG**AT**
GGAGGCTGAGAGACCCCAGGAAGAAGAGGATGGTGAGCAGGGCCCCCCTCAGGATGAGGAAGGCTGGCCCCCTCC
AAACTCCACCACTCGGCCTTGGCGATCTGCTCCTCCATCCCCTCCTCCTCCAGGGACCCGCCACACAGCCCTGGG
ACCCCGCTCGGCCTCCCTGCTCTCCCTGCAGACTGAACTCCTTCTGGACCTGGTGGCTGAAGCCCAGTCCCGCCG
CCTGGAGGAGCAGAGGGCCACCTTCTACACCCCCCAAAACCCCTCAAGCCTAGCCCCTGCCCCACTCCGTCCTCT
CGAGGACAGAGAACAGCTTTACAGCACTATCCTCAGTCACCAGTGCCAGCGGATGGAAGCCCAGCGGTCAGAGCC
TCCCCTCCCTCCAGGGGGGCAAGAGCTCCTGGAGTTGCTGCTGAGAGTTCAGGGTGGGGGTCGAATGGAGGAGCA
AAGGTCCCGGCCCCCCACACACACCTGC**TGA**GACTTGAGCCCCAACCAGCCCTTCCTTGCCACTGGTCTCAAAGC
TGGGCAGCCCATTGCATGCCCTCAACTCTTGCTTGGCAGGGGTACCAGAGACTGAAAGACACGGCACAAATCTCA
ATATTCATCTCCCACATCACCTTCCCTGGGAACTGGACAGGGTGAAAGTCCTCAAACTCTGGGAACAGGCGAGAT
GGAACAGGGATTTAACTCCCCGCCCACAGGTCCATGGGAGCTTGAGGCAGTAAGGGGGATCCCAGGCACCCATCT
CAAGGAGTGGCTGGGAGTCTTTTCCCTAACTTGTGGGGACACCACCAGTTGTCAAGCTACTAGGCAGTAGGGTCT
GAGGGCTCAGGCCTCCACCTGAGAGGTTATAACCTGAGAGACAGCTCTACCCTTCCTCCCAGTAAGAAGGGAAGG
TGGGTGGGCACCTGAGAGATTAAGACTATTCTCCCAGTCCCACTACCAGCACCCCCGATCCCTGAGACTGAGGGG
TTTACGGGCTGTGAATGGACCTTCAGCCCTGCCCACCCTCCCTCCCCACTGCTGCTGAGTCTGTCTGATGTTTTG
GTTGTGTGAATAAATATAATTCCCCTCTGGAAAAAAAAAAAAAAAAA

FIGURE 870

MEAERPQEEEDGEQGPPQDEEGWPPPNSTTRPWRSAPPSPPPPGTRHTALGPRSASLLSLQTELLLDLVAEAQSR
RLEEQRATFYTPQNPSSLAPAPLRPLEDREQLYSTILSHQCQRMEAQRSEPPLPPGGQELLELLLRVQGGGRMEE
QRSRPPTHTC

FIGURE 871

CGGGCACTCACCGTGTGTAGTTGGCATCTCCGCGCGTCCGGACACCCGATCCCAGCATCCCTGCCTGCAGGACTG
TTCGTGTTCAGCTCGCGTCCTGCAGCTGTCCGAGGTGCTCCAGTTGGAGGCTGAGGTTCCCGGGCTCTGTCGCTG
AGTGGGCGGCGGCACCGGCGGAG**ATG**CCTGGGAAGAAGGCGCGCAAGAACGCTCAACCGAGCCCCGCGCGGGCTC
CAGCAGAGCTGGAAGTCGAGTGTGCTACTCAACTCAGGAGATTTGGAGACAAACTGAACTTCCGGCAGAAACTTC
TGAATCTGATATCCAAACTCTTCTGCTCAGGAACC**TGA**CTGCATCAAAAACTTGCATGAGGGGACTCCTTCAAAA
GAGTTTTCTCAGGAGGTGCACGTTTCATCAATTTGAAGAAAGACTGCATTGTAATTGAGAGGAATGTGAAGGTGC
ATTCATGGGTGCCCTTGGAAACGGAAGATGGAATACATCAAAGTGAATTTCTGTTCAAGTTTTCCCAGATTATCA
TTCTTTGGGATGAGAGAACATTATAAAACCACTTTGTTTATTTTAAAGCAAGAATGGAAGACCCTTGAAAATAAA
GAAGTAATTATTGACACATTTCTTTTTTACTTAGAGAATCGTTCTAGTGTTTTTGCCGAAGATTACCGCTGGCCT
ACTGTGAAGGTAGATGACCTGTGATTAGACTGGGCGGCTGGGGAGAAACAGTTCAGTGCATTGTTGTTGTTGCTG
TTTTTGGTGTTTTGCTTTTCAGTGCCAACTCAGCACATTGTATATGATTCGGTTTATACATATTACCTTGTTATA
ATGAAAAAACTCATTCTGAGAACACTGAAATGTTATACTCAGTGTTGATTTCTTCGGTCACTACACAACGTAAAA
TCATTTGTTTCTTTTGACTCAAATTGTATTGCTTCTGTTCAGATGATCTTTCATTCAATGTGTTCCTGTTGGGCG
TTACTAGAAACTATGGAAAACTGGAAAATAACTTTGAAAAAATTGGATAAAGTATAGGAGGGTTACTTGGGGCCA
GTAAATCAGTAGACTGAACATTCAATATAATAAAAGAACATGGGGATTTTGTATAACCAGGGATAATAAAAGAA
AAAGAAGTTAATTTTTAATTGATGTTTTTGAAACTTAGTAGAACAAATATTCAGAAGTAACTTGATAAGATATGA
ATGTTTCTAAAGAGTTTCTAAAGGTTCGAAATGCTCCTTGTCACATTAGTGTGCATCCTACAAAAAGTGATCTCT
TAATGTAAATTAAGAATATTTTCATAATTGGAATATACTTTTCTTAAAAAAAAGGAACAGTTAGTTCTCATCTAG
AATGAAAGTTCCATATATGCATTGGTGAATATATATGTATACACATACTTACATACTTATATGGGTATCTGTATA
GATAATTTGTATTAGAGTATTATATAGCTTCTTAGTAGGGTCTCAAGTAAGTTCATTTTTTTTATCTGGGCTATA
TACAGTCCTCAAATAAATAATGTCTTGATTTTATTTCAGCAGGAATAATTTTATTTATTTTGCCTATTTATAATT
AAAGTATTTTTCTTTAGTTTGAAATGTGTATTAAAGTTACATTTTTGAGTTACAAGAGTCTTATAACTACTTGAA
TTTTTAGTTAAAATGTCTTAATGTAGGTTGTAGTCACTTTAGATGGAAAATTACCTCACATCTGTTTTCTTCAGT
ATTACTTAAGATTGTTTATTTAGTGGTAGAGAGATTTTTTTTTTCAGCCTAGAGGCAGCTATTTTACCATCTGGT
ATTTATGGTCTAATTTGTATTTAAACATATGCACACATATAAAAGTTGATACTGTGGCAGTAAACTATTAAAAGT
TTTCACTGTT

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FIGURE 872

MPGKKARKNAQPSPARAPAELEVECATQLRRFGDKLNFRQKLLNLISKLFCSGT

FIGURE 873

GCTCCTCACAGGCGCGGGTTGCTTCACCCACACCGTCATGTACTACGGCCACTACAGTAACGCCACGCTGAACCA
GCCGTGTGGCAGCCCCCTGGATGGCAGCCAGTGCACACCCAGGGTGGGTGGCCTGCCCTACAACATGCCCCTGGC
CTACCTCTCCACTGTGGGCGTGAGCTTCTTTATCACCTGCATCACCCTGGTGTACAGC**ATG**GCTCACTCTTTCGG
GGAGAGCTACCGGGTGGGCAGCACCTCTGGCATCCACGCCATCACCGTCTTCTGCTCCTGGGACTACAAGGTGAC
GCAGAAGCGGGCCTCCCGCCTCCAGCAGGACAATATTCGCACCCGGCTGAAGGAGCTGCTGGCCGAGTGGCAGCT
GCGGCACAGCCCCAGGAGCGTGTGCGGGAGGCTGCGGCAGGCGGCTGTGCTGGGGCTTGTGTGGCTGCTGTGTCT
GGGGACCGCGCTGGGCTGCGCCGTGGCCGTCCACGTCTTCTCGGAGTTCATGATCCAGAGTCCAGAGGCTGCTGG
CCAGGAGGCTGTGCTGCTGGTCCTGCCCCTGGTGGTTGGCCTCCTCAACCTGGGGGCCCCCTACCTGTGCCGTGT
CCTGGCCGCCCTGGAGCCGCATGACTCCCCGGTACTGGAGGTGTACGTGGCCATCTGCAGGAACCTCATCCTCAA
GCTGGCCATCCTGGGGACACTGTGCTACCACTGGCTGGGCCGCAGGGTGGGCGTCCTGCAGGGCCAGTGCTGGGA
GGATTTTGTGGGCCAGGAGCTGTACCGGTTCCTGGTGATGGACTTCGTCCTCATGTTGCTGGACACGCTTTTTGG
GGAACTGGTGTGGAGGATTATCTCCGAGAAGAAGCTGAAGAGGAGGCGGAAGCCGGAGTTTGACATTGCCCGGAA
TGTCCTGGAGCTGATTTATGGGCAGACTCTGACCTGGCTGGGGGTGCTCTTCTCGCCCCTCCTCCCCGCCGTGCA
GATCATCAAGCTGCTGCTCGTCTTCTATGTCAAGAAGACCAGCCTTCTGGCCAACTGCCAGGCGCCGCGCCGGCC
CTGGCTGGCCTCACACATGAGCACCGTCTTCCTCACGCTGCTCTGCTTCCCCGCCTTCCTGGGCGCCGCTGTCTT
CCTCTGCTACGCCGTCTGGCAGGTGAAGCCCTCGAGCACCTGCGGCCCCTTCCGGACCCTGGACACCATGTACGA
GGCCGGCAGGGTGTGGGTGCGCCACCTGGAGGCGGCAGGCCCCAGGGTCTCCTGGCTGCCCTGGGTGCACCGGTA
CCTGATGGAAAACACCTTCTTTGTCTTCCTGGTGTCAGCCCTGCTGCTGGCCGTGATCTACCTCAACATCCAGGT
GGTGCGGGGCCAGCGCAAGGTCATCTGCCTGCTCAAGGAGCAGATCAGCAATGAGGGTGAGGACAAAATCTTCTT
AATCAACAAGCTTCACTCCATCTACGAGAGGAAGGAGAGGGAGGAGAGGAGCAGGGTTGGGACAACCGAGGAGGC
TGCGGCACCCCCTGCCCTGCTCACAGATGAACAGGATGCC**TAG**GGGGACGGCGATGGGCCTCACGGGCCCGCCCA
GCACCCTGAGACCACACTGTTGCCTCCCAGTGACCCTGCTGGGACACCAGGACAAGGAAGACAGTTTCGCCTCTC
GAAAGCCGCAGCTGCGCCTAGGCTGGAGCTGGAAGGGTGGGTGAATCCGGCTTGGGCATCCCCAATGAACTCTGC
CCTGCCTGGGACTCTATTTATTCTGATTAAAGGGGTTTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAA

FIGURE 874

MAHSFGESYRVGSTSGIHAITVFCSWDYKVTQKRASRLQQDNIRTRLKELLAEWQLRHSPRSVCGRLRQAAVLGL
VWLLCLGTALGCAVAVHVFSEFMIQSPEAAGQEAVLLVLPLVVGLLNLGAPYLCRVLAALEPHDSPVLEVYVAIC
RNLILKLAILGTLCYHWLGRRVGVLQGQCWEDFVGQELYRFLVMDFVLMLLDTLFGELVWRIISEKKLKRRRKPE
FDIARNVLELIYGQTLTWLGVLFSPLLPAVQIIKLLLVFYVKKTSLLANCQAPRRPWLASHMSTVFLTLLCFPAF
LGAAVFLCYAVWQVKPSSTCGPFRTLDTMYEAGRVWVRHLEAAGPRVSWLPWVHRYLMENTFFVFLVSALLLAVI
YLNIQVVRGQRKVICLLKEQISNEGEDKIFLINKLHSIYERKEREERSRVGTTEEAAAPPALLTDEQDA

FIGURE 875

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CGGCGCTGGGCTGAGGGGAGGGGTTGTCTTAAAAGTCTCTCCTTCCCCCTGTAGGGGCGGCCGGCGAGTCCCAGT
GAGAGCGGAGGGTGCCAGAGGTAGGGGGCCGAGAAACAAAGTTCCCGGGGCTTCCTCCGGGGCCGCGGTCGGGGC
TGCGCGTTTGACCGCCCCCCTCCTCGCGAAGCAATGGCTTCCAAACTCCTGCGCGCGGTCATCCTCGGGCCGCCC
GGCTCGGGCAAGGGCACCGTGTGCCAGAGGATCGCCCAGAACTTTGGTCTCCAGCATCTCTCCAGCGGCCACTTC
TTGCGGGAGAACATCAAGGCCAGCACCGAAGTTGGTGAGATGGCAAAGCAGTATATAGAGAAAAGTCTTTTGGTT
CCAGACCATGTGATCACACGCCTAATGATGTCCGAGTTGGAGAACAGGCGTGGACAGCACTGGCTCCTTGATGGT
TTTCCTAGGACATTAGGACAAGCCGAAGCCCTGGACAAAATCTGTGAAGTGGATCTAGTGATCAGTTTGAATATT
CCATTTGAAACACTTAAAGATCGTCTCAGCCGCCGTTGGATTCACCTCCTAGCGGAAGGGTATATAACCTGGAC
TTCAATCCACCTCATGTACATGGTATTGATGACGTCACTGGTGAACCGTTAGTCCAGCAGGAGGATGATAAACCC
GAAGCAGTTGCTGCCAGGCTAAGACAGTACAAAGACGTGGCAAAGCCAGTCATTGAATTATACAAGAGCCGAGGA
GTGCTCCACCAATTTTCCGGAACGGAGACGAACAAAATCTGGCCCTACGTTTACACACTTTTCTCAAACAAGATC
ACACCTATTCAGTCCAAAGAAGCATATTGACCCTGCCCAATGGAAGAACCAGGAAGATGTGGTCATTCATTCAAT
AGTGTGTGTGTAGTATTGGTGCTGTGTCCAAATTAGAAGCTAGCTGAGGTAGCTTGCAGCATCTTTTCTAGTTGAAA
TGGTGAACTGATAGGAAAACAAATGAGTAGAAAGAGTTCATGAAGAGGCCCTCCTCTGCCTTTCAAAAGGCTGGT
CACCTACACATGTTTAAGGTGTCTCTGCACATGTCTCAAGCCCATCACAAGAAAGCAAGTACAGTGTGGATTTCA
AATGGTGTGTAACTTCAGCTCCAGCTGGTTTTTGACAGCTGTTGCTGTGGTAATATTTTTGACATGTGATGGTGA
TAGTCTCTGGTTCTCCCCATCCCCACAAAGGCTGTTGAACCACAGCACCAGGAAGCCTGAGAATGAATCCTGAGG
GCTCTAGCCCAGGCTTTGTCCCAGGCTTTCTGGTGTGTGCCCTCCTGGTAACAGTGAAATTGAAGCTACTTACTC
ATAGTGGTTGTTTCTCTGGTCTTGAGTGACTGTGTCCACAGTTCATTTTTTTCCGGTAGGAATAACTCCTTTTCT
ACATCCACGCTCCATAGAGTCTCTCCTTTTCAGACATCCTGGGATGAAAGAATTTGGCTTTTTTTTTCTTTTTT
TTTTGGACATCTGTTTTCACTCTTAGGCTTTTAAACAATAGTTATTGCTTTTATCCCTCTCAGATTCTAATAACT
GAGAGCGATGGGGCTATATTGAATCTCTGTATGCACTGAGAACTGAGCTATGAAGAGAATCTTATTAAACTGCTG
GTCTGACTTTATGGATTGACACTGTTCCTTTCTTTTATTGTGAAAAAAAAAAAAAAA
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FIGURE 876

MASKLLRAVILGPPGSGKGTVCQRIAQNFGLQHLSSGHFLRENIKASTEVGEMAKQYIEKSLLVPDHVITRLMMS
ELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSGRVYNLDFNPPHVHGIDD
VTGEPLVQQEDDKPEAVAARLRQYKDVAKPVIELYKSRGVLHQFSGTETNKIWPYVYTLFSNKITPIQSKEAY

FIGURE 877

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GCGCCGAGCCGGTTTCCCCGCCGGTGTCCGAGAGGCGCCCCCGGCCCGGCCCGGCCCGGCCCGCGCCCTCCGCCC
CCGCCTCCCCGGGCCGGCGGCGGTGGGCGAGCTCGCGGGCCCGGCCGCCCCCAGCCCCAGCCCCGCCGGGCCCCG
CCCCCCGTCGAGTGCATGAGGTTGACGCTACTTTGTTGCACCTGGAGGGAAGAACGTATGGGAGAGGAAGGAAGC
GAGTTGCCCGTGTGTGCAAGCTGCGGCCAGAGGATCTATGATGGCCAGTACCTCCAGGCCCTGAACGCGGACTGG
CACGCAGACTGCTTCAGGTGTTGTGACTGCAGTGCCTCCCTGTCGCACCAGTACTATGAGAAGGATGGGCAGCTC
TTCTGCAAGAAGGACTACTGGGCCCGCTATGGCGAGTCCTGCCATGGGTGCTCTGAGCAAATCACCAAGGGACTG
GTTATGGTGGCTGGGGAGCTGAAGTACCACCCCGAGTGTTTCATCTGCCTCACGTGTGGGACCTTTATCGGTGAC
GGGGACACCTACACGCTGGTGGAGCACTCCAAGCTGTACTGCGGGCACTGCTACTACCAGACTGTGGTGACCCCC
GTCATCGAGCAGATCCTGCCTGACTCCCCTGGCTCCCACCTGCCCCACACCGTCACCCTGGTGTCCATCCCAGCC
TCATCTCATGGCAAGCGTGGACTTTCAGTCTCCATTGACCCCCCGCACGGCCCACCGGGCTGTGGCACCGAGCAC
TCACACACCGTCCGCGTCCAGGGAGTGGATCCGGGCTGCATGAGCCCAGATGTGAAGAATTCCATCCACGTCGGA
GACCGGATCTTGGAAATCAATGGCACGCCCATCCGAAATGTGCCCCTGGACGAGATTGACCTGCTGATTCAGGAA
ACCAGCCGCCTGCTCCAGCTGACCCTCGAGCATGACCCTCACGATACACTGGGCCACGGGCTGGGGCCTGAGACC
AGCCCCCTGAGCTCTCCGGCTTATACTCCCAGCGGGGAGGCGGGCAGCTCTGCCCGGCAGAAACCTGTCTTCGCA
AGGACCTGGGTCGCTCTGAGTCCCTCCGCGTAGTCTGCCGGCCACACCGCATCTTCCGGCCGTCGGACCTCATCC
ACGGGGAGGTGCTGGGCAAGGGCTGCTTCGGCCAGGCTATCAAGGTGACACACCGTGAGACAGGTGAGGTGATGG
TGATGAAGGAGCTGATCCGGTTCGACGAGGAGACCCAGAGGACGTTCCTCAAGGAGGTGAAGGTCATGCGATGCC
TGGAACACCCCAACGTGCTCAAGTTCATCGGGGTGCTCTACAAGGACAAGAGGCTCAACTTCATCACTGAGTACA
TCAAGGGCGGCACGCTCCGGGGCATCATCAAGAGCATGGACAGCCAGTACCCATGGAGCCAGAGAGTGAGCTTTG
CCAAGGACATCGCATCAGGGATGGCCTACCTCCACTCCATGAACATCATCCACCGAGACCTCAACTCCCACAACT
GCCTGGTCCGCGAGAACAAGAATGTGGTGGTGGCTGACTTCGGGCTGGCGCGTCTCATGGTGGACGAGAAGACTC
AGCCTGAGGGCCTGCGGAGCCTCAAGAAGCCAGACCGCAAGAAGCGCTACACCGTGGTGGGCAACCCCTACTGGA
TGGCACCTGAGATGATCAACGGCCGCAGCTATGATGAGAAGGTGGATGTGTTCTCCTTTGGGATCGTCCTGTGCG
AGATCATCGGGCGGGTGAACGCAGACCCTGACTACCTGCCCCGCACCATGGACTTTGGCCTCAACGTGCGAGGAT
TCCTGGACCGCTACTGCCCCCCAAACTGCCCCCCGAGCTTCTTCCCCATCACCGTGCGCTGTTGCGATCTGGACC
CCGAGAAGAGGCCATCCTTTGTGAAGCTGGAACACTGGCTGGAGACCCTCCGCATGCACCTGGCCGGCCACCTGC
CACTGGGCCCACAGCTGGAGCAGCTGGACAGAGGTTTCTGGGAGACCTACCGGCGCGGCGAGAGCGGACTGCCTG
CCCACCCTGAGGTCCCCGACTGAGCCAGGGCCACTCAGCTGCCCCTGTCCCCACCTCTGGAGAATCCACCCCCAC
CAGATTCCTCCGCGGGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTCCTCAGAGCCAGGCCCTGAC
TTGCCTTCTCCCACCCCGTGGACCGCTTCCCCTGCCTTCTCTCTGCCGTGGCCCAGAGCCGGCCCAGCTGCACAC
ACACACCATGCTCTCGCCCTGCTGTAACCTCTGTCTTGGCAGGGCTGTCCCCTCTTGCTTCTCCTTGCATGAGCT
GGAGGGCCTGTGTGAGTTACGCCCCTTTCCACACGCCGCTGCCCCAGCAACCCTGTTCACGCTCCACCTGTCTGG
TCCATAGCTCCCTGGAGGCTGGGCCAGGAGGCAGCCTCCGAACCATGCCCCATATAACGCTTGGGTGCGTGGGAG
GGCGCACATCAGGGCAGAGGCCAAGTTCCAGGTGTCTGTGTTCCCAGGAACCAAATGGGGAGTCTGGGGCCCGTT
TTCCCCCCAGGGGGTGTCTAGGTAGCAACAGGTATCGAGGACTCTCCAAACCCCCAAAGCAGAGAGAGGGCTGAT
CCCATGGGGCGGAGGTCCCCAGTGGCTGAGCAAACAGCCCCTTCTCTCGCTTTGGGTCTTTTTTTTGTTTCTTTC
TTAAAGCCACTTTAGTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGGTCCCTTGAGGGAGCGTGGAGCTGCG
GTGCCCTGGCCGGCGATGGGGAGGAGCCGGCTCCGGCAGTGAGAGGATAGGCACAGTGGACCGGGCAGGTGTCCA
CCAGCAGCTCAGCCCCTGCAGTCATCTCAGAGCCCCTTCCCGGGCCTCTCCCCCAAGGCTCCCTGCCCCTCCTCA
TGCCCCTCTGTCCTCTGCGTTTTTTCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATTATTTTTTCATACGGCT
GCAGCAGCAGCTGCCAGGGGCTTGGGATTTTATTTTTGTGGCGGGCGGGGGTGGGAGGGCCATTTTGTCACTTTG
CCTCAGTTGAGCATCTAGGAAGTATTAAAACTGTGAAGCTTTCTCAGTGCACTTTGAACCTGGAAAACAATCCCA
ACAGGCCCGTGGGACCATGACTTAGGGAGGTGGGACCCACCCACCCCCATCCAGGAACCGTGACGTCCAAGGAAC
CAAACCCAGACGCAGAACAATAAAATAAATTCCGTACTCCCCACCC
```

FIGURE 878

MHHQQRLRANGGRGGTGLGAGSGPVSGGHSPLCAHCRGQLLPHPEEPIVMALGQQWHCDCFRCSVCEGHLHNWYF
EREGLLYCREDYYGRFGDACQQCMAVITGPVMVAGEHKFHPECFCCTACGSFIGEGESYALVERSKLYCGQCYGK
RSCQPADAKARITTAGKPMHSIRLVEIPKDATPGLRVDGVALDDGCPTVRITDLFCNFFLWLTSMAEQCCGAPYR
IDVNLTNLHIGDRILEVNGTPVSDSSVEQIDKLIRSNEKMLQLTVEHDPVQVCRSCSQADIQRAMSASTLILPLS
TSASSVEVGRERLYKTPGEQGTKARKLRQATNASTTIPPAAGATAMTQLKEKERCSSLSKLLDEQHQAQQHSAHP
QLYDLSRTQSCRVVQKPQRIFRATDLVIGEKLGEGFFGKVFKVTHRQSGEVMVLKELHRADEEAQRNFIKEVAVL
RLLDHRHVLKFIGVLYKDKKLHMVTEYVAGGCLKELIHDPAQVLPWPQRVRLARDIACGMSYLHSMNIIHRDLNS
MNCLVREDRSVIVADFGLARSVDAPRLPSGNMTPGGYGSGANSDAPMSPSGTLRRSKSRQRRQRYTVVGNPYWMA
PEMMKGLKYDEKLDVFSFGIMLCEIIGRVEADPDFMPRNSDFSLNQQEFREKFCAQCPEPFVKVAFVCCDLNPDM
RPCFETLHVWLQRLADDLAADRVPPERLLHEIETFQEWYASSEDALSPTSQRSLNNLDELVKSAVDSEISPVEKE
KENMVIKPQDIPKSPHLGKDFSPSGERLRDSMRARRRQRFLGAQEERRNLTPDTESKERALKKALKKCRPFGERG
YLVDLRAGAELQLEDVRDLNTYSDVDSSCDTSLNYHDVNNLPAAQEDENTVKPGKEELLEESTNKPSNQESQHHR
LAIDDMRTRLNQCRSKFEHLEEASRRNFNQSQHSMKNFFKTPPVALKMFQRLEHEAAALNGGNNCPPPPPRTQRI
NQTPIFGRKNPPVAIVGQKLQHAESLEDLASSGVAKQLATPAPKRSKATATTKGGQSSNPPLFLPPSLNISVALN
SNGNVTTTTNTNSSCPPSASDWLPKKHKLTLPLPSAQQQRTSSNHRLPMCNNKGKTLKPLPSRTGSQGIPASNCV
SPTRSSRPGSPTKHLAQRHTAATAQRLTNAAATHQQQHQQQSSKTTRLNILSPEKVHRLGARLTDQKQKMREEAA
ATASSVGGAGCAAGTAAGSLNGHRTIGSSGTPNSAVGERRRRAAPSPPVRTHFNTRC

FIGURE 879

AAGTAGCTATGGCAGTGCCTGATACAAAATAAACTCCAAATGTGTATTTATTAGATGGTTGGATGGAAGTTATTT
GCGTGTGAAAGCGCGTTTTACCCGAAGGCGCTCTGTGAGGGCCAGCGGGTCCCCTTCGGCCCTGGAGCCGGGGTC
ACACGCTCCCCACCGCGTGCGGTCACGAGACGCCCCCAAGGGAGTATCCTGGTACCCGGAAGCCGCGACTCCTGG
CCCTGAGCCCGGGCTTAGCCTTCGGGTCCACGTGGCCGGAGGCGGCAGCTGATTGGACGCGGGCCGCCCCACCCC
CTGGCCGTCGCGGGACCCGCAGGACTGAGACC**ATG**GAGGCGGTGGCGGTGGCCGCGGCGGTGGGGGTCCTTCTCC
TGGCCGGGGCCGGGGGCGCGGCAGGCGACGAGGCCCGGGAGGCGGCGGCCGTGCGGGCGCTCGTGGCCCGGCTGC
TGGGGCCAGGCCCCGCGGCCGACTTCTCCGTGTCGGTGGAGCGCGCTCTGGCTGCCAAGCCGGGCTTGGACACCT
ACAGCCTGGGCGGCGGCGGCGCGGCGCGCGTGCGGGTGCGCGGCTCCACGGGCGTGGCGGCCGCCGCGGGGCTGC
ACCGCTACCTGCGCGACTTCTGTGGCTGCCACGTGGCCTGGTCCGGCTCTCAGCTGCGCCTGCCGCGGCCACTGC
CAGCCGTGCCGGGGGAGCTGACCGAGGCCACGCCCAACAGGTACCGCTATTACCAGAATGTGTGCACGCAAAGCT
ACTCCTTCGTGTGGTGGGACTGGGCCCGCTGGGAGCGAGAGATAGACTGGATGGCGCTGAATGGCATCAACCTGG
CACTGGCCTGGAGCGGCCAGGAGGCCATCTGGCAGCGGGTGTACCTGGCCTTGGGCCTGACCCAGGCAGAGATCA
ATGAGTTCTTTACTGGTCCTGCCTTCCTGGCCTGGGGGCGAATGGGCAACCTGCACACCTGGGATGGCCCCCTGC
CCCCCTCCTGGCACATCAAGCAGCTTTACCTGCAGCACCGGGTCCTGGACCAGATGCGCTCCTTCGGCATGACCC
CAGTGCTGCCTGCATTCGCGGGGCATGTTCCCGAGGCTGTCACCAGGGTGTTCCCTCAGGTCAATGTCACGAAGA
TGGGCAGTTGGGGCCACTTTAACTGTTCCTACTCCTGCTCCTTCCTTCTGGCTCCGGAAGACCCCATATTCCCCA
TCATCGGGAGCCTCTTCCTGCGAGAGCTGATCAAAGAGTTTGGCACAGACCACATCTATGGGGCCGACACTTTCA
ATGAGATGCAGCCACCTTCCTCAGAGCCCTCCTACCTTGCCGCAGCCACCACTGCCGTCTATGAGGCCATGACTG
CAGTGGATACTGAGGCTGTGTGGCTGCTCCAAGGCTGGCTCTTCCAGCACCAGCCGCAGTTCTGGGGGCCCGCCC
AGATCAGGGCTGTGCTGGGAGCTGTGCCCCGTGGCCGCCTCCTGGTTCTGGACCTGTTTGCTGAGAGCCAGCCTG
TGTATACCCGCACTGCCTCCTTCCAGGGCCAGCCCTTCATCTGGTGCATGCTGCACAACTTTGGGGGAAACCATG
GTCTTTTTGGAGCCCTAGAGGCTGTGAACGGAGGCCCAGAAGCTGCCCGCCTCTTCCCCAACTCCACCATGGTAG
GCACGGGCATGGCCCCCGAGGGCATCAGCCAGAACGAAGTGGTCTATTCCCTCATGGCTGAGCTGGGCTGGCGAA
AGGACCCAGTGCCAGATTTGGCAGCCTGGGTGACCAGCTTTGCCGCCCGGCGGTATGGGGTCTCCCACCCGGACG
CAGGGGCAGCGTGGAGGCTACTGCTCCGGAGTGTGTACAACTGCTCCGGGGAGGCCTGCAGGGGCCACAATCGTA
GCCCGCTGGTCAGGCGGCCGTCCCTACAGATGAATACCAGCATCTGGTACAACCGATCTGATGTGTTTGAGGCCT
GGCGGCTGCTGCTCACATCTGCTCCCTCCCTGGCCACCAGCCCCGCCTTCCGCTACGACCTGCTGGACCTCACTC
GGCAGGCAGTGCAGGAGCTGGTCAGCTTGTACTATGAGGAGGCAAGAAGCGCCTACCTGAGCAAGGAGCTGGCCT
CCCTGTTGAGGGCTGGAGGCGTCCTGGCCTATGAGCTGCTGCCGGCACTGGACGAGGTGCTGGCTAGTGACAGCC
GCTTCTTGCTGGGCAGCTGGCTAGAGCAGGCCCGAGCAGCGGCAGTCAGTGAGGCCGAGGCCGATTTCTACGAGC
AGAACAGCCGCTACCAGCTGACCTTGTGGGGGCCAGAAGGCAACATCCTGGACTATGCCAACAAGCAGCTGGCGG
GGTTGGTGGCCAACTACTACACCCCTCGCTGGCGGCTTTTCCTGGAGGCGCTGGTTGACAGTGTGGCCCAGGGCA
TCCCTTTCCAACAGCACCAGTTTGACAAAAATGTCTTCCAACTGGAGCAGGCCTTCGTTCTCAGCAAGCAGAGGT
ACCCCAGCCAGCCGCGAGGAGACACTGTGGACCTGGCCAAGAAGATCTTCCTCAAATATTACCCCGGCTGGGTGG
CCGGCTCTTGG**TGA**TAGATTCGCCACCACTGGGCCTTGTTTTCCGCTAATTCCAGGGCAGATTCCAGGGCCCAGA
GCTGGACAGACATCACAGGATAACCCAGGCCTGGGAGGAGGCCCCACGGCCTGCTGGTGGGGTCTGACCTGGGGG
GATTGGAGGGAAATGACCTGCCCTCCACCACCACCCAAAGTGTGGGATTAAAGTACTGTTTTCTTTCCACTTAAA

FIGURE 880

MEAVAVAAAVGVLLLAGAGGAAGDEAREAAAVRALVARLLGPGPAADFSVSVERALAAKPGLDTYSLGGGGAARV
RVRGSTGVAAAAGLHRYLRDFCGCHVAWSGSQLRLPRPLPAVPGELTEATPNRYRYYQNVCTQSYSFVWWDWARW
EREIDWMALNGINLALAWSGQEAIWQRVYLALGLTQAEINEFFTGPAFLAWGRMGNLHTWDGPLPPSWHIKQLYL
QHRVLDQMRSFGMTPVLPAFAGHVPEAVTRVFPQVNVTKMGSWGHFNCSYSCSFLLAPEDPIFPIIGSLFLRELI
KEFGTDHIYGADTFNEMQPPSSEPSYLAAATTAVYEAMTAVDTEAVWLLQGWLFQHQPQFWGPAQIRAVLGAVPR
GRLLVLDLFAESQPVYTRTASFQGQPFIWCMLHNFGGNHGLFGALEAVNGGPEAARLFPNSTMVGTGMAPEGISQ
NEVVYSLMAELGWRKDPVPDLAAWVTSFAARRYGVSHPDAGAAWRLLLRSVYNCSGEACRGHNRSPLVRRPSLQM
NTSIWYNRSDVFEAWRLLLTSAPSLATSPAFRYDLLDLTRQAVQELVSLYYEEARSAYLSKELASLLRAGGVLAY
ELLPALDEVLASDSRFLLGSWLEQARAAAVSEAEADFYEQNSRYQLTLWGPEGNILDYANKQLAGLVANYYTPRW
RLFLEALVDSVAQGIPFQQHQFDKNVFQLEQAFVLSKQRYPSQPRGDTVDLAKKIFLKYYPGWVAGSW

FIGURE 881

GGAGAGAGCCGCCGAGCCGAGCCGAGCCCCAGCTCCAGCAAGAGCGCGGGCGGGTGGCCCAGGCACGCAGCGGTG
AGGACCGCGGCCACAGCTCGGCGCCAACCACCGCGGGCCTCCCAGCCAGCCCCGCGGCGGGGGCAGCCGCAGGAGC
CCTGGCTGTGGTCGGGGGGCAGTGGGCC**ATG**CTGGGGGCAGTGGAAGGCCCCAGGTGGAAGCAGGCGGAGGACAT
TAGAGACATCTACGACTTCCGAGATGTTCTGGGCACGGGGGCCTTCTCGGAGGTGATCCTGGCAGAAGATAAGAG
GACGCAGAAGCTGGTGGCCATCAAATGCATTGCCAAGGAGGCCCTGGAGGGCAAGGAAGGCAGCATGGAGAATGA
GATTGCTGTCCTGCACAAGATCAAGCACCCCAACATTGTAGCCCTGGATGACATCTATGAGAGTGGGGGCCACCT
CTACCTCATCATGCAGCTGGTGTCGGGTGGGGAGCTCTTTGACCGTATTGTGGAAAAAGGCTTCTACACGGAGCG
GGACGCCAGCCGCCTCATCTTCCAGGTGCTGGATGCTGTGAAATACCTGCATGACCTGGGCATTGTACACCGGGA
TCTCAAGCCAGAGAATCTGCTGTACTACAGCCTGGATGAAGACTCCAAAATCATGATCTCCGACTTTGGCCTCTC
CAAGATGGAGGACCCGGGCAGTGTGCTCTCCACCGCCTGTGGAACTCCGGGATACGTGGCCCCTGAAGTCCTGGC
CCAGAAGCCCTACAGCAAGGCTGTGGATTGCTGGTCCATAGGTGTCATCGCCTACATCTTGCTCTGCGGTTACCC
TCCCTTCTATGACGAGAATGATGCCAAACTCTTTGAACAGATTTTGAAGGCCGAGTACGAGTTTGACTCTCCTTA
CTGGGACGACATCTCTGACTCTGCCAAAGATTTCATCCGGCACTTGATGGAGAAGGACCCAGAGAAAAGATTCAC
CTGTGAGCAGGCCTTGCAGCACCCATGGATTGCAGGAGATACAGCTCTAGATAAGAATATCCACCAGTCGGTGAG
TGAGCAGATCAAGAAGAACTTTGCCAAGAGCAAGTGGAAGCAAGCCTTCAATGCCACGGCTGTGGTGCGGCACAT
GAGGAAACTGCAGCTGGGCACCAGCCAGGAGGGGCAGGGGCAGACGGCGAGCCATGGGGAGCTGCTGACACCAGT
GGCTGGGGGGCCGGCAGCTGGCTGTTGCTGTCGAGACTGCTGCGTGGAGCCGGGCACAGAACTGTCCCCCACACT
GCCCCACCAGCTC**TAG**GGCCCTGGACCTCGGGTCATGATCCTCTGCGTGGGAGGGCTTGGGGGCAGCCTGCTCCC
CTTCCCTCCCTGAACCGGGAGTTTCTCTGCCCTGTCCCCTCCTCACCTGCTTCCCTACCACTCCTCACTGCATTT
TCCATACAAATGTTTCTATTTTATTGTTCCTTCTTGTAATAAAGGGAAGATAAAACCAAAAAAAAAAAAAAAAA
A

FIGURE 882

MLGAVEGPRWKQAEDIRDIYDFRDVLGTGAFSEVILAEDKRTQKLVAIKCIAKEALEGKEGSMENEIAVLHKIKH
PNIVALDDIYESGGHLYLIMQLVSGGELFDRIVEKGFYTERDASRLIFQVLDAVKYLHDLGIVHRDLKPENLLYY
SLDEDSKIMISDFGLSKMEDPGSVLSTACGTPGYVAPEVLAQKPYSKAVDCWSIGVIAYILLCGYPPFYDENDAK
LFEQILKAEYEFDSPYWDDISDSAKDFIRHLMEKDPEKRFTCEQALQHPWIAGDTALDKNIHQSVSEQIKKNFAK
SKWKQAFNATAVVRHMRKLQLGTSQEGQGQTASHGELLTPVAGGPAAGCCCRDCCVEPGTELSPTLPHQL

FIGURE 883

CAGAGGGAGGAAGAÄGCGGCGGCGCGGCGGCGGCGGCTCCTCTTTGCAGAGGGGGAAACTCTTGGGCTGAGAGCA
GGAACAACGCGGTAGGCAAGGCGGGCTGCTGGCTCCCCGGCTCCGGCAGCAGCGGCGGCAGCCCGAGCAGCGGC
AGCAGCAGCGGCAGCACCCCAGGCGCTGACAGCCCCGCCGGCCGGCTCCGTTGCTGACCGCCGACTGTCA**ATG**GA
GCTGGAAAACATCGTGGCCAACACGGTCTTGCTGAAAGCCAGGGAAGGGGGCGGAGGAAAGCGCAAAGGGAAAAG
CAAGAAGTGGAAAGAAATCCTGAAGTTCCCTCACATTAGCCAGTGTGAAGACCTCCGAAGGACCATAGACAGAGA
TTACTGCAGTTTATGTGACAAGCAGCCAATCGGGAGGCTGCTTTTCCGGCAGTTTTGTGAAACCAGGCCTGGGCT
GGAGTGTTACATTCAGTTCCTGGACTCCGTGGCAGAATATGAAGTTACTCCAGATGAAAAACTGGGAGAGAAAGG
GAAGGAAATTATGACCAAGTACCTCACCCCAAAGTCCCCTGTTTTCATAGCCCAAGTTGGCCAAGACCTGGTCTC
CCAGACGGAGGAGAAGCTCCTACAGAAGCCGTGCAAAGAACTCTTTTCTGCCTGTGCACAGTCTGTCCACGAGTA
CCTGAGGGGAGAACCATTCCACGAATATCTGGACAGCATGTTTTTTGACCGCTTTCTCCAGTGGAAGTGGTTGGA
AAGGCAACCGGTGACCAAAAACACTTTCAGGCAGTATCGAGTGCTAGGAAAAGGGGGCTTCGGGGAGGTCTGTGC
CTGCCAGGTTCGGGCCACGGGTAAAATGTATGCCTGCAAGCGCTTGGAGAAGAAGAGGATCAAAAAGAGGAAAGG
GGAGTCCATGGCCCTCAATGAGAAGCAGATCCTCGAGAAGGTCAACAGTCAGTTTGTGGTCAACCTGGCCTATGC
CTACGAGACCAAGGATGCACTGTGCTTGGTCCTGACCATCATGAATGGGGGTGACCTGAAGTTCCACATCTACAA
CATGGGCAACCCTGGCTTCGAGGAGGAGCGGGCCTTGTTTTATGCGGCAGAGATCCTCTGCGGCTTAGAAGACCT
CCACCGTGAGAACACCGTCTACCGAGATCTGAAACCTGAAAACATCCTGTTAGATGATTATGGCCACATTAGGAT
CTCAGACCTGGGCTTGGCTGTGAAGATCCCCGAGGGAGACCTGATCCGCGGCCGGGTGGGCACTGTTGGCTACAT
GGCCCCCGAAGTCCTGAACAACCAGAGGTACGGCCTGAGCCCCGACTACTGGGGCCTTGGCTGCCTCATCTATGA
GATGATCGAGGGCCAGTCGCCGTTCCGCGGCCGTAAGGAGAAGGTGAAGCGGGAGGAGGTGGACCGCCGGGTCCT
GGAGACGGAGGAGGTGTACTCCCACAAGTTCTCCGAGGAGGCCAAGTCCATCTGCAAGATGCTGCTCACGAAAGA
TGCGAAGCAGAGGCTGGGCTGCCAGGAGGAGGGGGCTGCAGAGGTCAAGAGACACCCCTTCTTCAGGAACATGAA
CTTCAAGCGCTTAGAAGCCGGGATGTTGGACCCTCCCTTCGTTCCAGACCCCCGCGCTGTGTACTGTAAGGACGT
GCTGGACATCGAGCAGTTCTCCACTGTGAAGGGCGTCAATCTGGACCACACAGACGACGACTTCTACTCCAAGTT
CTCCACGGGCTCTGTGTCCATCCCATGGCAAAACGAGATGATAGAAACAGAATGCTTTAAGGAGCTGAACGTGTT
TGGACCTAATGGTACCCTCCCGCCAGATCTGAACAGAAACCACCCTCCGGAACCGCCCAAGAAAGGGCTGCTCCA
GAGACTCTTCAAGCGGCAGCATCAGAACAATTCCAAGAGTTCGCCCAGCTCCAAGACCAGTTTTAACCACCACAT
AAACTCAAACCATGTCAGCTCGAACTCCACCGGAAGCAGC**TAG**TTTCGGCTCTGGCCTCCAAGTCCACAGTGGAA
CCAGCCCAGACCCTTCTCCTTAGAAGTGGAAGTAGTGGAGCCCCTGCTCTGGTGGGGCTGCCAGGGGAGACCCCG
GGAGCCGGAAGGAGGCCGTCCATCCCGTCGACGTAGAACCTCGAGGTTTCTCAAAGAAATTTCCACTCAGGTCTG
TTTTCCGAGGCGGCCCCGGGCGGGTGGATTGGATTTGTCTTTGGTGAACATTGCAATAGAAATCCAATTGGATAC
GACAACTTGCACGTATTTTAATAGCGTCATAACTAGAACTGAATTTTGTCTTTATGATTTTTAAAGAAAAGTTTT
GTAAATTTCTCTACTGTCTCAGTTTACATTTTCGGTATATTTGTATTTAAATGAAGTGAGACTTTGAGGGTGTAT
ATTTTCTGTGCAGCCACTGTTAAGCCATGTGTTCCAAGGCATTTTAGCGGGGAGGGGGTTATCAAAAAAAAAAAA
AATGTGACTCAAGACTTCCAGAGCCTCAAATGAGAAAATGTCTTTATTAAATGTAGAAAGTGATCCATACTTCAA
AAAAAAA

1001/2825
FIGURE 884

MELENIVANTVLLKAREGGGGKRKGKSKKWKEILKFPHISQCEDLRRTIDRDYCSLCDKQPIGRLLFRQFCETRP
GLECYIQFLDSVAEYEVTPDEKLGEKGKEIMTKYLTPKSPVFIAQVGQDLVSQTEEKLLQKPCKELFSACAQSVH
EYLRGEPFHEYLDSMFFDRFLQWKWLERQPVTKNTFRQYRVLGKGGFGEVCACQVRATGKMYACKRLEKKRIKKR
KGESMALNEKQILEKVNSQFVVNLAYAYETKDALCLVLTIMNGGDLKFHIYNMGNPGFEEERALFYAAEILCGLE
DLHRENTVYRDLKPENILLDDYGHIRISDLGLAVKIPEGDLIRGRVGTVGYMAPEVLNNQRYGLSPDYWGLGCLI
YEMIEGQSPFRGRKEKVKREEVDRRVLETEEVYSHKFSEEAKSICKMLLTKDAKQRLGCQEEGAAEVKRHPFFRN
MNFKRLEAGMLDPPFVPDPRAVYCKDVLDIEQFSTVKGVNLDHTDDDFYSKFSTGSVSIPWQNEMIETECFKELN
VFGPNGTLPPDLNRNHPPEPPKKGLLQRLFKRQHQNNSKSSPSSKTSFNHHINSNHVSSNSTGSS

FIGURE 885

GTCCTTCGGTGTCTGGGTGTGGTGAGTAGAGGTGTGTGTCACAAAGTACAGACCATTGTGTGTGACAAAGCCCAT
CGTGTGTCTGTGTGTGTCTTTATCCACGTGGATGGACGTCTCTTTCTTGCTCTGCCCCAAGACACACCCTAGCCC
CTCCTTATTCTCAAAAGGGGGAGCTGGGGAGCCTCCCCCTACCCTGGGGCCTCCCCTGCCCCTCCCCGCCCTGCC
TGGCCGTCACCACTCCCCAGAGGGCACAGGGCTCTGCTGTGCCTCAGAGCAAAAGTCCCAGAGCCAGCAGAGCAG
GCTGACGACCTGCAAGCCACAGTGGCTGCCCTGTGCGTGCTGCGAGGTGGGGGACCCTGGGCAGGAAGCTGGCTG
AGCCCCAAGACCCCGGGGGCC**ATG**GGCGGGGATCTGGTGCTTGGCCTGGGGGCCTTGAGACGCCGAAAGCGCTTG
CTGGAGCAGGAGAAGTCTCTGGCCGGCTGGGCACTGGTGCTGGCAGGAACTGGCATTGGACTCATGGTGCTGCAT
GCAGAGATGCTGTGGTTCGGGGGGTGCTCGTGGGCGCTCTACCTGTTCCTGGTTAAATGCACGATCAGCATTTCC
ACCTTCTTACTCCTCTGCCTCATCGTGGCCTTTCATGCCAAAGAGGTCCAGCTGTTCATGACCGACAACGGGCTG
CGGGACTGGCGCGTGGCGCTGACCGGGCGGCAGGCGGCGCAGATCGTGCTGGAGCTGGTGGTGTGTGGGCTGCAC
CCGGCGCCCGTGCGGGGCCCGCCGTGCGTGCAGGATTTAGGGGCGCCGCTGACCTCCCCGCAGCCCTGGCCGGGA
TTCCTGGGCCAAGGGGAAGCGCTGCTGTCCCTGGCCATGCTGCTGCGTCTCTACCTGGTGCCCCGCGCCGTGCTC
CTGCGCAGCGGCGTCCTGCTCAACGCTTCCTACCGCAGCATCGGCGCTCTCAATCAAGTCCGCTTCCGCCACTGG
TTCGTGGCCAAGCTTTACATGAACACGCACCCTGGCCGCCTGCTGCTCGGCCTCACGCTTGGCCTCTGGCTGACC
ACCGCCTGGGTGCTGTCCGTGGCCGAGAGGCAGGCTGTTAATGCCACTGGGCACCTTTCAGACACACTTTGGCTG
ATCCCCATCACATTCCTGACCATCGGCTATGGTGACGTGGTGCCGGGCACCATGTGGGGCAAGATCGTCTGCCTG
TGCACTGGAGTCATGGGTGTCTGCTGCACAGCCCTGCTGGTGGCCGTGGTGGCCCGGAAGCTGGAGTTTAACAAG
GCAGAGAAGCACGTGCACAACTTCATGATGGATATCCAGTATACCAAAGAGATGAAGGAGTCCGCTGCCCGAGTG
CTACAAGAAGCCTGGATGTTCTACAAACATACTCGCAGGAAGGAGTCTCATGCTGCCCGCAGGCATCAGCGCAAG
CTGCTGGCCGCCATCAACGCGTTCCGCCAGGTGCGGCTGAAACACCGGAAGCTCCGGGAACAAGTGAACTCCATG
GTGGACATCTCCAAGATGCACATGATCCTGTATGACCTGCAGCAGAATCTGAGCAGCTCACACCGGGCCCTGGAG
AAACAGATTGACACGCTGGCGGGGAAGCTGGATGCCCTGACTGAGCTGCTTAGCACTGCCCTGGGGCCGAGGCAG
CTTCCAGAACCCAGCCAGCAGTCCAAG**TAG**CTGGACCCACGAGGAGGAACCAGGCTACTTTCCCCAGTACTGAGG
TGGTGGACATCGTCTCTGCCACTCCTGACCCAGCCCTGAACAAAGCACCTCAAGTGCAAGGACCAAAGGGGGCCC
TGGCTTGGAGTGGGTTGGCTTGCTGATGGCTGCTGGAGGGGACGCTGGCTAAAGTGGGTAGGCCTTGGCCCACCT
GAGGCCCCAGGTGGGAACATGGTCACCCCCACTCTGCATACCCTCATCAAAAACACTCTCACTATGCTGCTATGG
ACGACCTCCAGCTCTCAGTTACAAGTGCAGGCGACTGGAGGCAGGACTCCTGGGTCCCTGGGAAGAGGGTACTA
GGGGCCCGGATCCAGGATTCTGGGAGGCTTCAGTTACCGCTGGCCGAGCTGAAGAACTGGGTATGAGGCTGGGGC
GGGGCTGGAGGTGGCGCCCCCTGGTGGGACAACAAAGAGGACACCATTTTTCCAGAGCTGCAGAGAGCACCTGGT
GGGGAGGAAGAAGTGTAACTCACCAGCCTCTGCTCTTATCTTTGTAATAAATGTTAAAGCCAG

FIGURE 886

MGGDLVLGLGALRRRKRLLEQEKSLAGWALVLAGTGIGLMVLHAEMLWFGGCSWALYLFLVKCTISISTFLLLCL
IVAFHAKEVQLFMTDNGLRDWRVALTGRQAAQIVLELVVCGLHPAPVRGPPCVQDLGAPLTSPQPWPGFLGQGEA
LLSLAMLLRLYLVPRAVLLRSGVLLNASYRSIGALNQVRFRHWFVAKLYMNTHPGRLLLGLTLGLWLTTAWVLSV
AERQAVNATGHLSDTLWLIPITFLTIGYGDVVPGTMWGKIVCLCTGVMGVCCTALLVAVVARKLEFNKAEKHVHN
FMMDIQYTKEMKESAARVLQEAWMFYKHTRRKESHAARRHQRKLLAAINAFRQVRLKHRKLREQVNSMVDISKMH
MILYDLQQNLSSSHRALEKQIDTLAGKLDALTELLSTALGPRQLPEPSQQSK

FIGURE 887

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ACCTCCCAACCAAGCCCTCCAGCAAGGATTCAGGAGTGCCCCTCGGGCCTCGCCATGAGGCTCTTCCTGTCGCTC
CCGGTCCTGGTGGTGGTTCTGTCGATCGTCTTGGAAGGCCCAGCCCCAGCCCAGGGGACCCCAGACGTCTCCAGT
GCCTTGGATAAGCTGAAGGAGTTTGGAAACACACTGGAGGACAAGGCTCGGGAACTCATCAGCCGCATCAAACAG
AGTGAACTTTCTGCCAAGATGCGGGAGTGGTTTTCAGAGACATTTCAGAAAGTGAAGGAGAAACTCAAGATTGAC
TCATGAGGACCTGAAGGGTGACATCCAGGAGGGGCCTCTGAAATTTCCCACACCCCAGCGCCTGTGCTGAGGACT
CCCGCCATGTGGCCCCAGGTGCCACCAATAAAAATCCTACCG
```

FIGURE 888

MRLFLSLPVLVVVLSIVLEGPAPAQGTPDVSSALDKLKEFGNTLEDKARELISRIKQSELSAKMREWFSETFQKV
KEKLKIDS

FIGURE 889

CGTGGGAGCAGTGGGGTTCGACGGCGCGGCCGCGAGGCCGCC**ATG**GCCGCTCACGGGAAGCTGCGGCGGGAGCGG
GGGCTGCAGGCTGAGTATGAGACGCAAGTCAAAGAGATGCGCTGGCAGCTGAGCGAGCAGCTGCGCTGCCTGGAG
CTGCAGGGCGAGCTGCGGCGGGAGTTGCTGCAGGAGCTGGCAGAGTTCATGCGGCGCCGCGCTGAGGTGGAGCTG
GAATACTCCCGGGGCCTGGAAAAGCTGGCCGAGCGCTTCTCCAGCCGTGGAGGCCGCCTGGGGAGCAGCCGGGAG
CACCAAAGCTTCCGGAAGGAGCCGTCCCTCCTGTCGCCCTTGCACTGCTGGGCGGTGCTGCTGCAGCACACGCGG
CAGCAGAGCCGGGAGAGCGCGGCCCTGAGTGAGGTGCTGGCCGGGCCCTGGCCCAGCGCCTGAGTCACATTGCA
GAGGACGTGGGGCGCCTGGTCAAGAAGAGCAGGGATCGGAGCAGCAGCTGCAGGATGAGCTCCTGGAGGTGGTC
TCAGAGCTCCAGACGGCCAAGAAGACGTACCAGGCATATCACATGGAGAGCGTGAATGCCGAGGCCAAGCTCCGG
GAGGCCGAGCGGCAGGAGGAGAAGCGGGCAGGCCGGAGTGTCCCCACCACCACCGCTGGTGCCACTGAGGCAGGG
CCCCTCCGCAAGAGCTCCCTCAAGAAGGGAGGGAGGCTGGTGGAGAAGCGGCAGGCCAAGTTCATGGAGCACAAA
CTCAAGTGCACAAAGGCGCGCAACGAGTACCTGCTTAGCCTGGCTAGTGTCAACGCTGCTGTCAGTAACTACTAC
CTGCATGACGTCTTGGACCTCATGGACTGCTGTGACACAGGGTTCCACCTGGCCCTGGGGCAGGTGCTCCGGAGC
TACACGGCCGCTGAGAGCCGCACCCAAGCCTCCCAAGTGCAGGGCCTGGGCAGCCTGGAAGAAGCTGTGGAGGCC
CTGGATCCTCCAGGGGACAAAGCCAAGGTTCTCGAGGTGCATGCTACCGTCTTCTGTCCCCCGCTGCGCTTTGAC
TACCACCCCCATGATGGGGATGAGGTGGCTGAGATCTGCGTTGAAATGGAGCTGCGGGACGAGATTCTGCCCAGA
GCCCAGAACATCCAGAGCCGCCTGGACCGACAGACCATTGAGACAGAGGAGGTGAACAAGACTCTGAAGGCGACA
CTGCAGGCCCTGCTGGAGGTGGTGGCCTCGGATGACGGGGATGTGCTTGATTCCTTCCAGACCAGCCCCTCCACC
GAGTCCCTCAAGTCCACCAGCTCAGACCCAGGCAGCCGGCAGGCGGGCCGGAGGCGCGGCCAGCAGCAGGAGACC
GAAACCTTCTACCTCACGAAGCTCCAGGAGTATCTGAGTGGACGGAGCATCCTCGCCAAGCTGCAGGCCAAGCAC
GAGAAGCTGCAGGAGGCCCTTCAGCGAGGTGACAAGGAGGAGCAGGAGGTGTCTTGGACCCAGTACACACAGAGA
AAATTCCAGAAGAGCCGCCAGCCCCGCCCCAGCTCCCAGTATAACCAGAGACTCTTŤGGGGGAGACATGGAGAAG
TTTATCCAGAGCTCAGGCCAGCCTGTGCCCCTGGTGGTGGAGAGCTGCATTCGCTTCATCAACCTCAATGGCCTG
CAGCATGAAGGCATCTTCCGGGTATCGGGTGCCCAGCTCCGGGTCTCAGAGATCCGTGATGCCTTCGAGAGAGGG
GAGGACCCACTGGTGGAGGGCTGCACTGCCCATGACCTGGACTCGGTGGCCGGGGTGCTGAAGCTCTACTTCCGG
AGCCTGGAGCCCCCACTCTTCCCCCCAGACCTGTTCGGCGAGCTGCTGGCTTCTTCGGAGCTGGAGGCCACAGCG
GAGAGGGTGGAGCACGTGAGCCGCCTGCTGTGGCGGCTGCCCGCGCCGGTGCTGGTGGTTCTGCGCTACCTCTTC
ACCTTCCTCAACCACCTGGCCCAGTACAGCGATGAGAACATGATGGACCCCTACAACCTGGCCGTGTGCTTCGGG
CCCACGCTGCTACCGGTGCCCGCTGGGCAGGACCCGGTGGCGCTGCAGGGCCGGGTGAACCAGCTGGTGCAGACG
CTCATAGTGCAGCCCGATCGGGTCTTCCCGCCCCTGACCTCGCTGCCTGGCCCCGTCTACGAGAAGTGCATGGCA
CCGCCTTCCGCCAGCTGCCTGGGGGACGCCCAGCTGGAGAGCCTGGGGGCGGACAATGAGCCGGAGCTGGAAGCC
GAGATGCCCGCACAGGAGGATGACCTGGAGGGGGTCGTGGAGGCTGTGGCCTGCTTTGCCTACACGGGCCGCACA
GCCCAGGAGCTGAGCTTCCGGCGGGGGGACGTACTGCGGCTGCACGAGAGGGCCTCGAGCGACTGGTGGCGGGGG
GAGCACAACGGCATGCGGGGCCTCATCCCCCACAAGTATATCACGCTGCCCGCCGGGACGGAGAAGCAGGTGGTG
GGCGCAGGGCTGCAGACTGCAGGGGAGTCTGGGAGCAGTCCCGAGGGCCTCCTGGCATCGGAGCTGGTCCACCGG
CCAGAGCCATGCACCTCACCTGAGGCCATGGGACCCTCTGGACACAGACGACGCTGCTTGGTCCCAGCCTCCCCA
GAGCAACACGTGGAGGTGGATAAGGCTGTGGCACAGAACATGGACTCTGTGTTTAAGGAGCTCTTGGGAAAGACC
TCTGTCCGCCAGGGCCTTGGGCCAGCATCTACCACCTCTCCCAGTCCTGGGCCCCGAAGCCCAAAGGCCCCGCCC
AGCAGCCGCCTGGGCAGGAACAAAGGCTTCTCCCGGGCCCTGGGGCCCCAGCCTCACCCTCAGCTTCCCACCCC
CAGGGCCTAGACACGACCCCCAAGCCACAC**TGA**GGTGCCGCTGCTGGAGATGCGTGCCCCCGGCGGCTACCCGCT
GGACCGGCCACTCTCCCCAGCCCCCTTGCTTCTCTCCAGCCCTGTCCAGCAAGTGCAGGGTGCCTGCACTTCACC
CTGTGCAGAGAGGTGGGATGGGGCCGTGCACACAGGGATGCCCGCTCCACATCCTGCCTGCCCCTCAGCCCTGGC
CCAGGCCCCTTTTGGAGGCAGCTGAGGAAGGATGCTGGGGAAAGCCCTCTTCTGCAGCTTTGTGGAAGGCTGATC
AGTGGCTGCTGGGTGGCGGGTACCCTTGCTCAGATGCCTGGCAGGGCTGGGTGGCGATTCATAAAGACCTCGTGT
TGATTCCCCG

FIGURE 890

MAAHGKLRRERGLQAEYETQVKEMRWQLSEQLRCLELQGELRRELLQELAEFMRRRAEVELEYSRGLEKLAERFS
SRGGRLGSSREHQSFRKEPSLLSPLHCWAVLLQHTRQQSRESAALSEVLAGPLAQRLSHIAEDVGRLVKKSRDLE
QQLQDELLEVVSELQTAKKTYQAYHMESVNAEAKLREAERQEEKRAGRSVPTTAGATEAGPLRKSSLKKGGRLV
EKRQAKFMEHKLKCTKARNEYLLSLASVNAAVSNYYLHDVLDLMDCCDTGFHLALGQVLRSYTAAESRTQASQVQ
GLGSLEEAVEALDPPGDKAKVLEVHATVFCPPLRFDYHPHDGDEVAEICVEMELRDEILPRAQNIQSRLDRQTIE
TEEVNKTLKATLQALLEVVASDDGDVLDSFQTSPSTESLKSTSSDPGSRQAGRRRGQQQETETFYLTKLQEYLSG
RSILAKLQAKHEKLQEALQRGDKEEQEVSWTQYTQRKFQKSRQPRPSSQYNQRLFGGDMEKFIQSSGQPVPLVVE
SCIRFINLNGLQHEGIFRVSGAQLRVSEIRDAFERGEDPLVEGCTAHDLDSVAGVLKLYFRSLEPPLFPPDLFGE
LLASSELEATAERVEHVSRLLWRLPAPVLVVLRYLFTFLNHLAQYSDENMMDPYNLAVCFGPTLLPVPAGQDPVA
LQGRVNQLVQTLIVQPDRVFPPLTSLPGPVYEKCMAPPSASCLGDAQLESLGADNEPELEAEMPAQEDDLEGVVE
AVACFAYTGRTAQELSFRRGDVLRLHERASSDWWRGEHNGMRGLIPHKYITLPAGTEKQVVGAGLQTAGESGSSP
EGLLASELVHRPEPCTSPEAMGPSGHRRRCLVPASPEQHVEVDKAVAQNMDSVFKELLGKTSVRQGLGPASTTSP
SPGPRSPKAPPSSRLGRNKGFSRGPGAPASPSASHPQGLDTTPKPH

FIGURE 891A

GGGAACTTGGATTAGGTGGAGAGGCAGTTGGGGGGCCTCGTTGTTTTGCGTCTTAGTTCCGCCCTCCTGTCCATC
AGGAGAAGGAAAGGATAAACCCTGGGCC**ATG**AGGCTACCCCTGCTCCTGGTTTTTGCCTCTGTCATTCCGGGTGC
TGTTCTCCTACTGGACACCAGGCAATTTTTAATCTATAATGAAGATCACAAGCGCTGCGTGGATGCAGTGAGTCC
CAGTGCCGTCCAAACCGCAGCTTGCAACCAGGATGCCGAATCACAGAAATTCCGATGGGTGTCCGAATCTCAGAT
TATGAGTGTTGCATTTAAATTATGCCTGGGAGTGCCATCAAAAACAGACTGGGTTGCTATCACTCTCTATGCCTG
TGACTCAAAAAGTGAATTTCAGAAATGGGAGTGCAAAAATGACACACTTTTGGGGATCAAAGGAGAAGATTTATT
TTTTAACTACGGCAACAGACAAGAAAAGAATATTATGCTCTACAAGGGATCGGGTTTATGGAGCAGGTGGAAGAT
CTATGGAACCACAGACAATCTGTGCTCCAGAGGTTATGAAGCCATGTATACGCTACTAGGCAATGCCAATGGAGC
AACCTGTGCATTCCCGTTCAAGTTTGAAAACAAGTGGTACGCAGATTGCACGAGTGCTGGGCGGTCGGATGGATG
GCTCTGGTGCGGAACCACTACTGACTATGACACAGACAAGCTATTTGGATATTGTCCATTGAAATTTGAGGGCAG
TGAAAGCTTATGGAATAAAGACCCGCTGACCAGCGTTTCCTACCAGATAAACTCCAAATCCGCTTTAACGTGGCA
CCAAGCGAGGAAAAGCTGCCAACAACAGAACGCTGAGCTCCTGAGCATCACAGAGATACATGAGCAAACATACCT
GACAGGATTAACCAGTTCCTTGACCTCAGGACTCTGGATTGGACTTAACAGTCTGAGCTTCAACAGCGGTTGGCA
GTGGAGTGACCGCAGTCCTTTCCGATATTTGAACTGGTTACCAGGAAGTCCATCAGCTGAACCTGGAAAAAGCTG
TGTGTCACTAAATCCTGGAAAAAATGCTAAATGGGAAAATCTGGAATGTGTTCAGAAACTGGGCTATATTTGCAA
AAAGGGCAACACCACTTTAAATTCTTTTGTTATTCCCTCAGAAAGTGATGTGCCTACTCACTGTCCTAGTCAGTG
GTGGCCGTATGCCGGTCACTGTTACAAGATTCACAGAGATGAGAAAAAAATCCAGAGGGATGCTCTGACCACCTG
CAGGAAGGAAGGCGGTGACCTCACAAGTATCCACACCATCGAGGAATTGGACTTTATTATCTCCCAGCTAGGATA
TGAGCCAAATGACGAATTGTGGATCGGCTTAAATGACATTAAGATTCAAATGTACTTTGAGTGGAGTGATGGGAC
CCCTGTAACGTTTACCAAATGGCTTCGTGGAGAACCAAGCCATGAAAACAACAGACAGGAGGATTGTGTGGTGAT
GAAAGGCAAGGATGGGTACTGGGCAGATCGGGGCTGTGAGTGGCCTCTTGGCTACATCTGCAAGATGAAATCACG
AAGCCAAGGTCCAGAAATAGTGGAAGTCGAAAAAGGCTGCAGGAAAGGCTGGAAAAAACATCACTTTTACTGCTA
TATGATTGGACATACGCTTTCAACATTTGCAGAAGCAAACCAAACCTGTAATAATGAGAATGCTTATTTAACAAC
TATTGAAGACAGATATGAACAAGCCTTCCTGACTAGTTTCGTTGGCTTAAGGCCTGAAAAATATTTCTGGACAGG
ACTTTCAGATATACAAACCAAAGGGACTTTTCAGTGGACCATCGAGGAAGAGGTTCGGTTCACCCACTGGAATTC
AGATATGCCAGGGCGAAAGCCAGGGTGTGTTGCCATGAGAACCGGGATTGCAGGGGGCTTATGGGATGTTTTGAA
ATGTGATGAAAAGGCAAAATTTGTGTGCAAGCACTGGGCAGAAGGAGTAACCCACCCACCGAAGCCCACGACGAC
TCCCGAACCCAAATGTCCGGAGGATTGGGGCGCCAGCAGTAGAACAAGCTTGTGTTTCAAGCTGTATGCAAAAGG
AAAACATGAGAAGAAAACGTGGTTTGAATCTCGAGATTTTTGTCGAGCTCTGGGTGGAGACTTAGCTAGCATCAA
TAACAAAGAGGAACAGCAAACAATATGGCGATTAATAACAGCTAGTGGAAGCTACCACAAACTGTTTTGGTTGGG
ATTGACATATGGAAGCCCTTCAGAAGGTTTTACTTGGAGTGATGGTTCTCCTGTTTCATATGAAAACTGGGCTTA
TGGAGAACCTAATAATTATCAAAATGTTGAATACTGTGGTGAGCTGAAAGGTGACCCTACTATGTCTTGGAATGA
TATTAATTGTGAACACCTTAACAACTGGATTTGCCAGATACAAAAAGGACAAACACCAAAACCTGAGCCAACACC
AGCTCCTCAAGACAATCCACCAGTTACTGAAGATGGGTGGGTTATTTACAAAGACTACCAGTATTATTTCAGCAA
AGAGAAGGAAACCATGGACAATGCGCGAGCGTTTTGCAAGAGGAATTTTGGTGATCTTGTTTCTATTCAAAGTGA
AAGTGAAAAGAAGTTTCTATGGAAATATGTAAACAGAAATGATGCACAGTCTGCATATTTTATTGGTTTATTGAT
CAGCTTGGATAAAAAGTTTGCTTGGATGGATGGAAGCAAAGTGGATTACGTGTCTTGGGCCACAGGTGAACCCAA
TTTTGCAAATGAAGATGAAAACTGTGTGACCATGTATTCAAATTCAGGGTTTTGGAATGACATTAACTGTGGCTA
TCCAAACGCCTTCATTTGCCAGCGACATAACAGTAGTATCAATGCTACCACAGTTATGCCTACCATGCCCTCGGT
CCCATCAGGGTGCAAGGAAGGTTGGAATTTCTACAGCAACAAGTGTTTCAAAATCTTTGGATTATGGAAGAAGA
AAGAAAAAATTGGCAAGAGGCACGAAAAGCTTGTATAGGCTTTGGAGGGAATCTGGTCTCCATACAAAATGAAAA
AGAGCAAGCATTTCTTACCTATCACATGAAGGACTCCACTTTCAGTGCCTGGACTGGGCTGAATGATGTCAATTC
AGAACACACGTTCCTTTGGACGGATGGACGAGGAGTCCATTACACAAACTGGGGGAAAGGTTACCCTGGTGGAAG
AAGAAGCAGTCTTTCTTATGAAGATGCTGACTGTGTTGTTATTGGAGGTGCATCAAATGAAGCAGGAAAATG
GATGGATGATACCTGCGACAGTAAACGAGGCTACATATGCCAGACACGATCCGACCCTTCCTTGACTAATCCTCC
AGCAACGATTCAAACAGATGGCTTTGTTAAATATGGCAAAAGCAGCTATTCACTCATGAGACAAAAATTTCAATG
GCATGAAGCGGAGACATACTGCAAGCTTCACAATTCCCTTATAGCCAGCATTCTGGATCCCTACAGTAATGCATT
TGCGTGGCTGCAGATGGAAACATCTAATGAACGTGTGTGGATCGCCCTGAACAGTAACTTGACTGATAATCAATA

FIGURE 891B

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CACTTGGACTGATAAGTGGAGGGTGAGGTACACTAACTGGGCTGCTGATGAGCCCAAATTGAAATCAGCATGTGT
TTATCTGGATCTTGATGGCTACTGGAAGACAGCACATTGCAATGAAAGTTTTTACTTTCTCTGTAAAAGATCAGA
TGAAATCCCTGCTACTGAACCCCCACAACTGCCTGGCAGATGCCCGGAGTCAGATCACACAGCATGGATTCCTTT
CCATGGTCACTGTTACTATATTGAGTCCTCATATACAAGAAACTGGGGCCAAGCTTCTCTGGAATGTCTTCGAAT
GGGTTCCTCTCTGGTTTCCATTGAAAGTGCTGCAGAATCCAGTTTTCTGTCATATCGGGTTGAGCCACTTAAAAG
TAAAACCAATTTTTGGATAGGATTGTTCAGAAATGTTGAAGGGACGTGGCTGTGGATAAATAACAGTCCGGTCTC
CTTTGTCAACTGGAACACAGGAGATCCCTCTGGTGAACGGAATGATTGTGTAGCTTTACATGCGTCTTCTGGGTT
TTGGAGTAATATTCACTGTTCTTCCTACAAAGGATATATTTGTAAAAGACCAAAAATTATTGATGCTAAACCTAC
TCATGAATTACTTACAACAAAGCTGACACAAGGAAGATGGACCCTTCTAAACCGTCTTCCAACGTGGCCGGAGT
AGTCATCATTGTGATCCTCCTGATTTTAACGGGTGCTGGCCTTGCCGCCTATTTCTTTTATAAGAAAAGACGTGT
GCACCTACCTCAAGAGGGCGCCTTTGAAAACACTCTGTATTTTAACAGTCAGTCAAGCCCAGGAACTAGTGATAT
GAAAGATCTCGTGGGCAATATTGAACAGAATGAACACTCGGTCATC**TAG**TACCTCAATGCGATTCTGAGATATTT
GAATTTCATAAAATTGTAACTGAAATTTAAAATTTTTAGTTCAATGTGATTGTTTTCTTTAAAATGAGTACTGAA
TTGTACTGGTCTGTCCTTTTTTCCTTTGCCTAATTGAAGAAATAATTGCTTGTTTTCTAGCCTGGCAAGATATTT
TCATAAAAGAGGGATAACAATGCTGATTACTACCTTTTAAAATATTTTAGATAAATGCACAGCACCACAGCACCA
CATCTAAGCATTAGTGATGGGTAGCTGATGTCAGCTTCATGTGGATTTTAAGCACTCTAGAAACAATGAAGCTTC
TTGGCATATTTTAAGGAGCTCCCAAAATGTGTTACCTATTAAATTGTAACTCAGCAAGTAGAAGACCATTTGAAA
AGTCAGGTACAAATTTCCTCAAGTGGCATAAAAATGTAGTCAGTTTTCTCTTTTACCAGTTTTTATTTCCACTCC
AATTATTTAGAACTTTATTTGTACATGTGCAGAAGAATAAGGCAGCTGAGAATCTTGTTTCCCCCAAGAGAGTTT
TACAGGCTGAGTGTTGCAAATGTGTTCTTTGTCCTGTTATATGTATATCAGGAATACAAGGATGTGAAATAAAAC
TGTAAATTTGCATAACTGGATGTACTTAGATAATGTGAAATAAACATTAAAGACAAGGTCTATTTTAATAAAAA
AAAAAAAAAA
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FIGURE 892

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MRLPLLLVFASVIPGAVLLLDTRQFLIYNEDHKRCVDAVSPSAVQTAACNQDAESQKFRWVSESQIMSVAFKLCL
GVPSKTDWVAITLYACDSKSEFQKWECKNDTLLGIKGEDLFFNYGNRQEKNIMLYKGSGLWSRWKIYGTTDNLCS
RGYEAMYTLLGNANGATCAFPFKFENKWYADCTSAGRSDGWLWCGTTTDYDTDKLFGYCPLKFEGSESLWNKDPL
TSVSYQINSKSALTWHQARKSCQQQNAELLSITEIHEQTYLTGLTSSLTSGLWIGLNSLSFNSGWQWSDRSPFRY
LNWLPGSPSAEPGKSCVSLNPGKNAKWENLECVQKLGYICKKGNTTLNSFVIPSESDVPTHCPSQWWPYAGHCYK
IHRDEKKIQRDALTTCRKEGGDLTSIHTIEELDFIISQLGYEPNDELWIGLNDIKIQMYFEWSDGTPVTFTKWLR
GEPSHENNRQEDCVVMKGKDGYWADRGCEWPLGYICKMKSRSQGPEIVEVEKGCRKGWKKHHFYCYMIGHTLSTF
AEANQTCNNENAYLTTIEDRYEQAFLTSFVGLRPEKYFWTGLSDIQTKGTFQWTIEEEVRFTHWNSDMPGRKPGC
VAMRTGIAGGLWDVLKCDEKAKFVCKHWAEGVTHPPKPTTTPEPKCPEDWGASSRTSLCFKLYAKGKHEKKTWFE
SRDFCRALGGDLASINNKEEQQTIWRLITASGSYHKLFWLGLTYGSPSEGFTWSDGSPVSYENWAYGEPNNYQNV
EYCGELKGDPTMSWNDINCEHLNNWICQIQKGQTPKPEPTPAPQDNPPVTEDGWVIYKDYQYYFSKEKETMDNAR
AFCKRNFGDLVSIQSESEKKFLWKYVNRNDAQSAYFIGLLISLDKKFAWMDGSKVDYVSWATGEPNFANEDENCV
TMYSNSGFWNDINCGYPNAFICQRHNSSINATTVMPTMPSVPSGCKEGWNFYSNKCFKIFGFMEEERKNWQEARK
ACIGFGGNLVSIQNEKEQAFLTYHMKDSTFSAWTGLNDVNSEHTFLWTDGRGVHYTNWGKGYPGGRRSSLSYEDA
DCVVIIGGASNEAGKWMDDTCDSKRGYICQTRSDPSLTNPPATIQTDGFVKYGKSSYSLMRQKFQWHEAETYCKL
HNSLIASILDPYSNAFAWLQMETSNERVVWIALNSNLTDNQYTWTDKWRVRYTNWAADEPKLKSACVYLDLDGYWK
TAHCNESFYFLCKRSDEIPATEPPQLPGRCPESDHTAWIPFHGHCYYIESSYTRNWGQASLECLRMGSSLVSIES
AAESSFLSYRVEPLKSKTNFWIGLFRNVEGTWLWINNSPVSFVNWNTGDPSGERNDCVALHASSGFWSNIHCSSY
KGYICKRPKIIDAKPTHELLTTKADTRKMDPSKPSSNVAGVVIIVILLILTGAGLAAYFFYKKRRVHLPQEGAFE
NTLYFNSQSSPGTSDMKDLVGNIEQNEHSVI
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FIGURE 893

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AGCGCAGCACTCCCCGCTCGTTGGCCCGGGTATCCCAGCGCGGACCCACGCGATACGCTGACGCCCCGACGCCGA
TCCGGCCGAGCCAAGTAAGGGGGACGGCCCGAGACGGAGAAGGGAGAGAGTGGGAGTTTCCCAGCCCGCAGAACT
TTCGAAGTTGAGAAGAGAACCCCTGGAACGTGCGCTCAGCACTGGGATTTTCTGGACTCAACGATGACTCTGAAT
AATGTCACCATGCGCCAGGGCACTGTGGGCATGCAGCCACAGCAGCAGCGCTGGAGCATCCCAGCTGATGGCAGG
CATCTGATGGTCCAGAAAGAGCCCCACCAGTACAGCCACCGCAACCGCCATTCTGCTACCCCTGAGGACCACTGC
CGCCGAAGCTGGTCCTCTGACTCCACAGACTCAGTCATCTCCTCTGAGTCAGGGAACACCTACTACCGAGTGGTG
CTCATAGGGGAGCAGGGGGTGGGCAAGTCCACTCTGGCCAACATCTTTGCAGGTGTGCATGACAGCATGGACAGC
GACTGCGAGGTGCTGGGAGAAGATACATATGAACGAACCCTGATGGTTGATGGGGAAAGTGCAACGATTATACTC
CTGGATATGTGGGAAAATAAGGGGGAAAATGAATGGCTCCATGACCACTGCATGCAGGTCGGGGACGCATACCTG
ATTGTCTACTCAATCACAGACCGAGCGAGCTTCGAGAAGGCATCTGAGCTGCGAATCCAGCTCCGCAGGGCCCGG
CAGACAGAGGACATTCCCATAATTTTGGTTGGCAACAAAAGTGACTTAGTGCGGTGCCGAGAAGTGTCTGTATCA
GAAGGGAGAGCCTGTGCAGTGGTGTTTGACTGCAAGTTCATCGAGACCTCTGCAGCTGTCCAGCACAACGTGAAG
GAGCTGTTTGAGGGCATTGTGCGACAGGTGCGCCTTCGGCGGGACAGCAAGGAGAAGAATGAACGGCGGCTGGCC
TACCAGAAAAGGAAGGAGAGCATGCCCAGGAAAGCCAGGCGCTTCTGGGGCAAGATCGTGGCCAAAAACAACAAG
AATATGGCCTTCAAGCTCAAGTCCAAATCCTGCCATGACCTCTCTGTACTCTAGGAACCCAGGGTCACCCAGATG
TCCCTTTGATGGCCCTTGTTGAAGGCCATTGGGACCAATAATCTATATTAGATTGAATACTTAAGTTAGATGTGG
TTTCCCCCATTGTAGCAGGGAGCTAGCGTATTAGCCTTGTGGGCAACATGATGCATGGGAAATGAAAGATTTTTG
TAAAAAGTCAGTATTTATTTCCAGGAAAAGCCTGACCTTGCTATTTGAACACCCAAGACTCTTTAGAGGATGTGT
TTGGTGTTCACATGTGTTTCTTCTATTTTGGATAGTAGGGAAGTAAAGCTTACAAAGAATGCCTAGAACAAGAAC
TTTTCATCATTAAAAATTTTTCCCAGTGTTCTGATATGTGACTTTGAGGCCAATGAGTCATAAACAAATATAAGA
AAGCTGTCAATGAGTTTCTTCAAAGGAGGGAAAACTTTCTACGAATCTAAGATCCATGGAGCTAGAATTGTAGAA
CTAGGCTCATCAGAATCGTGACTATTATTGCTCCATCAAACTGTGAAAAGAAATGATGTGGACCTTGCTGGAAAC
AAAGGCTTAGCAAACAATTTTTGTTCAATGCCCACCGAGACATATAGAATTGGGAACTGATACATGTGTCCCTTA
TAGGCTCAAAAATTATATCTTACAATTTCTTATTTAGGGGGAAATTATTTGAATCAGATTCTATTTAGTCAAACC
ACCTTTTATGTTTTATTATTTTTGAATTCATGGAGCCATCATAAAAATATTTTTAAAATCAGAATTATTGATACC
CTGTAGTGCAAAATGTCAATTTTTAATGTATAATCAGAAGTCTGAATTTTCATAAAACATATAGCATAAAAACCT
CCAGTACTTTGGTTGACCCTTGTATGTCACAGCTCTGCTCTATTTATTATTATTTTGCAAAATAACCATTTTAAC
ATTTGATAAAGCATATTTATGAACATATTTCTTAATAAGAAAAATATCCATTTTATTACCATTTTCTATCTTTTT
CAAAATATGCAAGTTTTTACCTATATGTCTTATAATAAAAGAAATAAAATATTTGA
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1012/2825
FIGURE 894

MTLNNVTMRQGTVGMQPQQQRWSIPADGRHLMVQKEPHQYSHRNRHSATPEDHCRRSWSSDSTDSVISSESGNTY
YRVVLIGEQGVGKSTLANIFAGVHDSMDSDCEVLGEDTYERTLMVDGESATIILLDMWENKGENEWLHDHCMQVG
DAYLIVYSITDRASFEKASELRIQLRRARQTEDIPIILVGNKSDLVRCREVSVSEGRACAVVFDCKFIETSAAVQ
HNVKELFEGIVRQVRLRRDSKEKNERRLAYQKRKESMPRKARRFWGKIVAKNNKNMAFKLKSKSCHDLSVL

FIGURE 895

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GGGCGGGTAGTCGACCGTGTCCGCGCGCCTGGGAGACGCTGCCTCGGCCCGGACGCGCCCGCGCCCCCGCGGCTG
GAGGGTGGTCGCCACTGGGACACTGTGAACCAGGAGTGAGTCGGAGCTGCCGCGCTGCCCAGGCCATGGACTGTG
AGGTCAACAACGGTTCCAGCCTCAGGGATGAGTGCATCACAAACCTACTGGTGTTTGGCTTCCTCCAAAGCTGTT
CTGACAACAGCTTCCGCAGAGAGCTGGACGCACTGGGCCACGAGCTGCCAGTGCTGGCTCCCCAGTGGGAGGGCT
ACGATGAGCTGCAGACTGATGGCAACCGCAGCAGCCACTCCCGCTTGGGAAGAATAGAGGCAGATTCTGAAAGTC
AAGAAGACATCATCCGGAATATTGCCAGGCACCTCGCCCAGGTCGGGGACAGCATGGACCGTAGCATCCCTCCGG
GCCTGGTGAACGGCCTGGCCCTGCAGCTCAGGAACACCAGCCGGTCGGAGGAGGACCGGAACAGGGACCTGGCCA
CTGCCCTGGAGCAGCTGCTGCAGGCCTACCCTAGAGACATGGAGAAGGAGAAGACCATGCTGGTGCTGGCCCTGC
TGCTGGCCAAGAAGGTGGCCAGTCACACGCCGTCCTTGCTCCGTGATGTCTTTCACACAACAGTGAATTTTATTA
ACCAGAACCTACGCACCTACGTGAGGAGCTTAGCCAGAAATGGGATGGACTGAACGGACAGTTCCAGAAGTGTGA
CTGGCTAAAGCTTGATGTGGTCACAGCTGTATAGCTGCTTCCAGTGTAGACGGAGCCCTGGCATGTCAACAGCGT
TCCTAGAGAAGACAGGCTGGAAGATAGCTGTGACTTCTATTTTAAAGACAATGTTAAACTTATAACCCACTTTAA
AATATCTACATTAATATACTTGAATGAAAATGTCCATTTACACGTATTTGAATGGCCTTCATATCATCCACACAT
GAATCTGCACATCTGTAAATCTACACACGGTGCCTTTATTTCCACTGTGCAGGTTCCCACTTAAAAATTAAATTG
GAAAGCAGGTTTCAAGGAAGTAGAAACAAAATACAATTTTTTTGGTAAAAAAAAA
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FIGURE 896

MDCEVNNGSSLRDECITNLLVFGFLQSCSDNSFRRELDALGHELPVLAPQWEGYDELQTDGNRSSHSRLGRIEAD
SESQEDIIRNIARHLAQVGDSMDRSIPPGLVNGLALQLRNTSRSEEDRNRDLATALEQLLQAYPRDMEKEKTMLV
LALLLAKKVASHTPSLLRDVFHTTVNFINQNLRTYVRSLARNGMD

FIGURE 897

GGCACGAGGGACAAAGGCTGCAGGGGGACCCTGCCTGCCCAGGAGGGCCCCTCAGGGAGTAAACCCCTAAGGGGC
TCACTTAAGGAGGAGGTAGCCCTGGATTTGAGTGTGAGGAAGCCCACAGCAGAGGCCTCCCCTGTCAAGGCTTCC
CGTTCTGTGGAGCATGCCAAGCCTACTGCAGCCATGGATGTGCCAGATGTGGGCAACATGGTGTCAGATCTGCCA
GGCCTGAAAAAGATAGACACAGAAGCACCAGGCTTGCCTGGGGTGCCAGTGACCACAGATGCCATGCCAAGGACC
AACTTCCACAGCTCTGTGGCCTTCATGTTCCGAAAGTTCAAGATCCTCCGTCCGGCACCTTTGCCTGCAGCCGTG
GTCCCGTCCACGCCCACCTCAGCTCCTGCTCCCACACAGCCTGCACCCACCCCCACATCTGGGCCCATTGGACTG
CGGATTCTCGCTCAACAGCCCTTGTCTGTGACCTGCTTCAGCCTGGCACTGCCCAGCCCTCCAGCCGTAGCTGTG
GCCTCCCCTGCCCCTGCTCCAGCTCCATCCCCTGCTCCGGCTCGAGCTCAGGCTCCAGCTTCAGCCCGGGATCCA
GCTCCAGCTCCAGCTCCAGTTGCAGGCCCTGCTCCAGCATCTACTTCAGCCCCAGGGGACTCCCTGGAGCAGCAT
TTTACAGGACTACATGCGTCCCTGTGTGATGCTATTTCTGGCTCCGTCGCCCACTCTCCTCCAGAGAAGCTTCGC
GAGTGGCTAGAGACGGCTGGGCCCTGGGGCCAGGCTGCGTGGCAGGACTGCCAGGGTGTGCAGGGGCTGCTGGCC
AAGCTGCTGTCTCAGCTGCAGCGCTTCGATCGCACCCACCGGTGCCCCTTCCCCCATGTGGTGCGAGCTGGCGCC
ATCTTCGTGCCCATTCACCTGGTGAAGGAGCGGCTCTTCCCTCGGCTGCCACCCGCTTCTGTGGACCATGTGCTG
CAGGAGCATCGTGTGGAGCTGCGGCCCACCACGCTGTCGGAGGAGCGGGCACTGCGGGAGCTCGCCCTGCCAGGC
TGCACCTCACGCATGCTGAAGTTACTGGCGCTGCGCCAGCTGCCGGACATTTACCCCGACCTTCTCGGCCTGCAG
TGGCGCGACTGTGTACGCCGCCAGCTGGGTGAGC**ATG**GGGCAGCCCCAGTGGCCACCGGAGCTGTGTGAGCAAGT
GACAGGTGACTTTGACACTGAGGCTGGAGCTGTGTCCTCCTCAGAGCCCACTGTGGCCAGAGATGAGCCAGAGAG
CCTAGCCCTGGCTCAGAAGTCACCGGCCCCCAAGGTCAGGAAGCCAGGCAGGAAGCCACCAACCCCTGGCCCGGA
GAAAGCAGAGGCAGCTGCTGGGGAAGAGTCCTGTGGTGCCTCCCCTACCCCTGCTACCAGTGCCAGCCCACCTGG
CCCCACACTGAAGGCCCGCTTCCGCAGTCTGCTGGAGACCGCCTGGCTCAATGGCCTGGCTCTGCCCACCTGGGG
CCACAAGTCCTCAAGACCAGACCAGCCCTCACCCTGCCCACAGCTGCTGGACAGCCAGAGCCATCACCTG**TAG**CA
CTGGTTGCCAGTGCTGTGTGTATAGCAGTCACTCTCCACCCTTCCCTTCTGCCTGCCCAGCTGCCCCGGGGCCAC
GAGTGGATGCTGGGGCTGTGGCTGCTCCCCTGGAGGGGTTCCATCTCTGACCCTGTGGCCCATTCAGGGTGGGCT
GAAGAGCCCCTGAGCTTTTAACGTGAGGGTCTTTATTGGATAGGACTACTCCCTATTCTTGCCTAGAGAACACA
CATGGGCTTTGGAGCCCGACAGACCTGGGCTTGAATCCCGGCTCGTGTTCTTGCTGCAGGACCTGGGCAAGAAAC
TTCACCTCTGCTGAGCCCTCATTCCCCATGTGTAAAATGGGACAACGCAACCTACCTCACAGGGTTGTTGTGGGG
ATGCTGCCTGATACATACCCTGTCACCATTGGTCTCTGCTTCCTCTCTGGGACAGGGCCTAGAATTGGAGGCAG
AGAACCTTCCTATAGAAAGTCTTCGTGTGTCCTAGGACTTGGCTATCGTAGAGTGGTACCTTAGGCAGTGGATGT
GACTCACACTCTCAGGAGTCACCCCCCAGCATTTGGGGTTGGGTTGGCCCTACTCCAGCCTGGAGCTCCCTGAGG
GAGCCTGCACTCCCTGCTCCCAATCCCCGCTACTGGTGCAGGGATGCAGCCTGGAGCTGGCGTCCTTGTTCTGGG
CCTGCTGCTGCCGCCACCCCAGGAGGCCCCAGGCCTGTCCTGAATTGACATCAGTGCTTCCCTGAACTGCCTCCC
CCACCCCTGGCATTATCCCAGGAAACTTATGTTTTCTAGAAGCTAAGCAGCTGCTGGGACTCAGGGACTGGTGCA
GGTAGGCTGAGTGGCAGCTCAGTCCTAGAAGGTCTCTGAAGATCTGGACTGAGGACCCTGCTACTCCCCAAGCCA
GAGCCCATCAGCCAGGCCTGCTGTGAGCCACCTGCCTGTGGAGTGCTGAGCTCAACCAAAGGCTGGCAAGCTCTG
GGCCTCATTTAAGGGATTCTGATGAGCCGATGGGCCCTGGAGGCAGCCCATTAAAGCATCTGGCTCGTTTTTGGA
AAAAAAAAAAAAAAAAAA

FIGURE 898

MGQPQWPPELCEQVTGDFDTEAGAVSSSEPTVARDEPESLALAQKSPAPKVRKPGRKPPTPGPEKAEAAAGEESC
GASPTPATSASPPGPTLKARFRSLLETAWLNGLALPTWGHKSSRPDQPSPCPQLLDSQSHHL

FIGURE 899

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GGCACGAGGCCCGTCAGCTGTCCCAGAGCCTGTGTCGCGCCCGTGCCGGTAGCGCCCGTGCCGGTAGCGCCGCTG
CCACCGCTCACCATGGGCCCGGGTCCTCGGCTGCTGCTACCTCTCGTGCTTTGCGTGGGGCTCGGCGCACTTGTG
TTTCTTCGGGGGCCGAGGGCTTCCGCAAGCGAGGCCCCTCGGTGACGGCCAAGGTCTTCTTTGATGTGAGGATT
GGAGACAAAGATGTTGGCAGAATTGTGATTGGCCTCTTTGGAAAAGTTGTGCCCAAGACAGTGGAAAATTTTGTT
GCTCTAGCAACAGGAGAGAAAGGATATGGATATAAAGGAAGCAAGTTTCATCGTGTCATCAAGGATTTCATGATT
CAAGGAGGTGACATCACCACTGGAGATGGCACTGGGGGTGTGAGCATCTATGGTGAGACATTTCCAGATGAGAAC
TTCAAGCTGAAGCACTATGGCATTGGGTGGGTCAGCATGGCCAACGCTGGGCCTGACACCAATGGCTCTCAGTTC
TTTATCACCTTGACCAAGCCCACCTGGTTGGACGGCAAACATGTGGTGTTTGGAAAAGTCATTGATGGGATGACA
GTGGTGCACTCCATAGAGCTCCAAGCAACTGATGGGCATGACCGTCCACTCACCAACTGCTCGATCATCAACAGT
GGCAAGATAGACGTGAAAACGCCTTTTGTGGTTGAGATCGCTGATTGGTGACACAACTGGCAGAAAACAAGGATA
TGCTTTGGCAGGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTGTGTTGTCTTTCAATTATTTGCTTTTTTTT
TTACTTTCTTTTTGTATTCTATCCCAGATCACAGGAAAGTTATAAAAATCAAACCGTCACCCTTAGTTTGCTTG
AACTTTAGTAAACCACCTGCTTAGGGACTTTGAACTTAAATATATCCCCTTCCTCAAGTGGTGCTATTTTAAAAC
TAAAAAAACTTTGAATTGGCAAAAAAAAAAAAAAAAAAA
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FIGURE 900

MGPGPRLLLPLVLCVGLGALVFSSGAEGFRKRGPSVTAKVFFDVRIGDKDVGRIVIGLFGKVVPKTVENFVALAT
GEKGYGYKGSKFHRVIKDFMIQGGDITTGDGTGGVSIYGETFPDENFKLKHYGIGWVSMANAGPDTNGSQFFITL
TKPTWLDGKHVVFGKVIDGMTVVHSIELQATDGHDRPLTNCSIINSGKIDVKTPFVVEIADW

FIGURE 901

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GGCACGAGGCCCGTCAGCTGTCCCAGAGCCTGTGTCGCGCCCGTGCCGGTAGCGCCCGTGCCGGTAGCGCCGCTG
CCACCGCTCACCATGGGCCCGGGTCCTCGGCTGCTGCTACCTCTCGTGCTTTGCGTGGGGCTCGGCGCACTTGTG
TTTCTTCGGGGGCCGAGGGCTTCCGCAAGCGAGGCCCCTCGGTGACGGCCAAGGTCTTCTTTGATGTGAGGATT
GGAGACAAAGATGTTGGCAGAATTGTGATTGGCCTCTTTGGAAAAGTTGTGCCCAAGACAGTGGAAAATTTTGTT
GCTCTAGCAACAGGAGAGAAAGGATATGGATATAAAGGAAGCAAGTTTCATCGTGTCATCAAGGATTTCATGATT
CAAGGAGGTGACATCACCACTGGAGATGGCACTGGGGGTGTGAGCATCTATGGTGAGACATTTCCAGATGAGAAC
TTCAAGCTGAAGCACTATGGCATTGGGTGGGTCAGCATGGCCAACGCTGGGCCTGACACCAATGGCTCTCAGTTC
TTTATCACCTTGACCAAGCCCACCTGGTTGGACGGCAAACATGTGGTGTTTGGAAAAGTCATTGATGGGATGACA
GTGGTGCACTCCATAGAGCTCCAAGCAACTGATGGGCATGACCGTCCACTCACCAACTGCTCGATCATCAACAGT
GGCAAGATAGACGTGAAAACGCCTTTTGTGGTTGAGATCGCTGATTGGTGACACAACTGGCAGAAAACAAGGATA
TGCTTTGGCAGGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTGTGTTGTCTTTCAATTATTTGCTTTTTTTT
TTACTTTCTTTTTGTATTCTATCCCAGATCACAGGAAAGTTATAAAAATCAAACCGTCACCCTTAGTTTGCTTG
AACTTTAGTAAACCACCTGCTTAGGGACTTTGAACTTAAATATATCCCCTTCCTCAAGTGGTGCTATTTTAAAAC
TAAAAAAACTTTGAATTGGCAAAAAAAAAAAAAAAAAAAA
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1020/2825
FIGURE 902

MGPGPRLLLPLVLCVGLGALVFSSGAEGFRKRGPSVTAKVFFDVRIGDKDVGRIVIGLFGKVVPKTVENFVALAT
GEKGYGYKGSKFHRVIKDFMIQGGDITTGDGTGGVSIYGETFPDENFKLKHYGIGWVSMANAGPDTNGSQFFITL
TKPTWLDGKHVVFGKVIDGMTVVHSIELQATDGHDRPLTNCSIINSGKIDVKTPFVVEIADW

FIGURE 903A

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CCACGCGTCCGCCCGGCGCTAAGCCGGGAGACAAGATCCGATCTACTGAGAGCTGCGAGGTACTGCCCTGGATGT
GGTGGAGCTGGGCTGGGACCTCCGGGCTGCTGGTCTGTGAGCCTGGCTTTGAAAATTGGTTACTGGGTCTCCTCT
CAAGAAATCTCAAGATATTAAAGTTACTGCTGTTAAAAAGTGCACGAGCATAGCTGTGTCTCGGAAATGGTTGGC
TTTGGGCAGTTCAGGAGGAGGACTCCATCTCATTCAGAAAGAAGGCTGGAAGCACAGGCTTTTTCTTTCACACAG
GGAAGGTGCAATTTCTCAAGTCGCCTGTTGTTTACATGATGATGATTATGTTGCTGTAGCTACCAGTCAAGGTCT
TGTGGTTGTTTGGGAATTAAATCAAGAGCGTCGTGGGAAACCGGAACAA**ATG**TATGTGTCTTCAGAACACAAAGG
CCGAAGAGTCACAGCTCTCTGCTGGGATACAGCTATTCTTAGAGTTTTTGTAGGTGATCATGCTGGGAAGGTTTC
TGCTATCAAACTCAATACTTCTAAACAAGCAAAGGCAGCTGCTGCTTTTGTGATGTTTCCTGTTCAGACAATCAC
AACTGTTGACTCCTGTGTTGTACAGTTAGATTATTTGGATGGAAGGCTACTTATATCTTCACTTACTCGATCCTT
CTTGTGTGACACTGAGAGAGAAAGTTTTGGAAAATTGGAAACAAGGAAAGAGATGGAGAATATGGAGCTTGTTT
CTTTCCTGGAAGATGTTCTGGGGGCCAGCAACCTCTGATATATTGTGCTCGCCCAGGCTCTAGGATGTGGGAAGT
GAACTTTGATGGAGAAGTTATAAGTACACATCAGTTCAAGAAACTCCTCTCGTTGCCACCTCTCCCTGTGATTAC
TCTAAGATCAGAACCTCAGTATGATCATACAGCTGGATCCTCCCAGTCTTTGTCTTTCCCCAAACTCTTACATCT
TAGTGAGCATTGTGTGCTGACTTGGACAGAAAGAGGAATTTATATTTTCATTCCTCAGAATGTTCAAGTTCTTCT
TTGGAGTGAAGTCAAAGATATTCAGGATGTGGCTGTCTGTAGGAATGAATTGTTCTGTTTGCACCTAAATGGGAA
AGTCTCACATCTCTCCCTGATATCTGTGGAGCGCTGTGTGGAACGCCTGCTAAGAAGAGGCCTATGGAACTTGGC
TGCTCGTACATGCTGTCTTTTCCAAAATTCTGTCATTGCCAGCAGAGCAAGAAAAACTTTGACTGCAGATAAATT
GGAGCATTTGAAATCTCAGCTGGACCATGGCACCTACAATGATCTAATTTCTCAACTGGAAGAATTGATCTTAAA
ATTTGAACCTTTGGATTCAGCTTGTAGCAGTAGAAGAAGCTCCATTTCATCACATGAAAGTTTCAGCATCTTGGA
CTCTGGTATTTATCGTATCATTAGTAGTAGAAGAGGCAGTCAGTCAGATGAAGACTCTTGCTCCCTTCACAGCCA
AACCCTCTCAGAAGATGAGAGATTTAAAGAATTCACCTCACAGCAGGAAGAGGACCTGCCAGATCAGTGTTGTGG
CTCACACGGAAATGAAGACAATGTTTCTCATGCTCCAGTGATGTTTGAGACAGATAAGAATGAAACTTTTCTCCC
GTTCGGCATTCCATTACCATTTCGTTCTCCATCTCCTCTTGTGTCTCTT̲CAGGCTGTCAAAGAAAGTGTTTCTAG
CTTTGTGCGTAAAACTACTGAGAAGATTGGCACCCTTCACACGAGCCCTGATCTGAAAGTGAGACCAGAGCTCAG
GGGTGATGAGCAATCATGTGAAGAGGATGTGAGTTCAGATACCTGCCCAAAGGAGGAAGACACTGAGGAGGAAAA
AGAGGTAACTAGTCCACCTCCAGAAGAAGACAGGTTCCAGGAGCTTAAAGTAGCAACAGCAGAAGCAATGACCAA
GCTACAGGACCCTCTGGTTTTATTTGAATCCGAGTCTCTGAGAATGGTTTTACAGGAGTGGCTTTCACATTTAGA
AAAAACATTTGCCATGAAGGACTTTTCAGGTGTTTCAGATACTGACAACTCATCCATGAAATTGAACCAGGATGT
GCTATTAGTTAATGAATCAAAAAAGGGAATATTAGATGAAGATAATGAAAAGAAAAAAGGGACTCTTTAGGCAA
TGAAGAATCTGTTGATAAAACAGCATGTGAATGTGTAAGGAGTCCAAGGGAGTCTTTGGATGACCTGTTTCAAAT
ATGTTCTCCATGCGCCATTGCAAGTGGTCTTCGGAACGACCTGGCTGAATTGACAACATTATGTTTGGAGTTGAA
TGTATTGAATTCTAAGATCAAAAGCACCAGTGGACATGTGGACCACACTTTGCAACAGTACTCTCCTGAAATTCT
GGCTTGCCAGTTCCTGAAGAAGTACTTTTTTCTCCTGAACTTGAAAAGAGCGAAGGAGAGTATCAAGCTTAGTTA
CAGTAATAGCCCTTCTGTTTGGGATACTTTTATTGAAGGATTGAAAGAAATGGCAAGTTCCAATCCTGTGTATAT
GGAGATGGAAAAAGGAGATCTACCAACAAGGTTAAAGTTACTAGATGACGAGGTTCCTTTTGATAGTCCGTTGTT
GGTTGTTTATGCTACCCGGTTGTATGAAAAGTTTGGGGAGTCTGCTCTTCGATCCTTAATCAAGTTCTTTCCATC
CATTTTGCCATCGGATATCATACAACTTTGTCATCATCATCCTGCTGAGTTTTTGGCCTATTTAGACAGTCTGGT
GAAATCAAGGCCTGAAGATCAGCGGTCATCTTTTCTTGAGTCCCTTCTGCAACCAGAGTCTTTAAGGTTGGATTG
GCTGCTTTTGGCAGTGTCCCTTGATGCTCCACCAAGCACCAGCACAATGGATGATGAAGGTTATCCCAGGCCTCA
TTCACACTTGCTTTCCTGGGGTTACAGTCAGCTGATCCTTCATCTAATTAAACTTCCTGCAGATTTATAACCAA
AGAGAAAATGACAGACATCTGCAGGTCTTGTGGTTTCTGGCCTGGATATCTAATTCTCTGTTTGGAGCTGGAGAG
AAGAAGAGAGGCCTTCACCAATATTGTGTATCTGAATGATATGAGCCTGATGAAAGGGGACAATGGTTGGATCCC
AGAGACCGTGGAGGAATGGAAGCTTCTCCTTCATCTCATACAGAGCAAGAGCACGAGGCCAGCCCCCCAGGAGTC
ACTAAATGGGAGCCTCAGTGATGGGCCTTCCCCCATCAATGTGGAGAATGTGGCACTTCTGTTAGCTAAGGCCAT
GGGCCCAGATCGGGCTTGGTCACTGCTACAGGAATGTGGTCTGGCCCTTGAGTTGTCAGAGAAGTTTACCAGAAC
CTGCGATATCCTGAGGATTGCTGAGAAAAGGCAGAGGGCCTTGATACAAAGCATGCTTGAAAAATGCGATCGGTT
TCTCTGGTCCCAGCAGGCC**TAG**TGGGAGAAGATTCAGCAGGATGTCATGACATTTTGAGAAAAACTAAATCATGC
TCCTGAACCTTCTGAACGCATTTGTTATTGAAGGAAAGACACCACCCCCAAATCCTGCCATCTTATTGGGGCTAC
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FIGURE 903B

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TTTTGTCAGTGTCTGTACCCTTGGCATCGGCATCTGTGACTCTTTATCCATGACCTCAGTGTTTCTTAACCAAAG
TTGTACTCAGCATTTCTTAACCAAAGTTGAATTTTGAAAAGAGTCAGTCCTTGTTTGCTGGAATTAGAATGTTAA
TGTCCTAGTATTATTCCGAACTACAGTATTAACTGCTTGTTGCTAGTGGATTAGACAGATTCTTTTCTTACTGTG
GCTTCCATGTTGGGAGCAGAAGCTTTTCATCCTGGTCACATGAAGACAGATGGTATTATTGACTGGAGTTGAATT
ATTTTTATATCTTGTCTGGCACAATATGGAAATTAATGAAATAAGACGGTGTATAATGGAATTAACACCCAAAAT
AAGTAGAACACTGAAGATTTGAATTTGATATTTAAGTAAAATGGGACTGGGTGCAGTGGCTCAGGCCTGTAATCC
CAACCCTTTGGAAGGTAAAGACGGGAGGATCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACATAGTGAG
AATGCATCTCTACAAAAAATAAAAAAAATTAGCTAGGCATAGTACCTGAGGCCAGGAGGTCCAGGCCGCAATGAG
ATGTGTTTGTGCCATTGCACACCAGTCTGGGTGACAGAGAAAGACCCTGTCTCAAAAACAAATTAAATAAAATAT
CTTCATATATAAATTAAGCTAATTAAAAATATTTTTCCCTGTATTTATTTAATATTTTCTAATCTGAACCCATAT
ACAGCTGACTAATTCATTCTTAGAAATGTGTTATCTGTAATCTTTCCTAAACAGAGTAGCCCACAAGAATCATGC
ACTTTTTAAAATTATTTCTAAGAAGCCATAACAAAGCTGTGTACTAATAAAGACTGCAGCAAGCACTTGTGTTAT
TTAAATTATGTAAGTAGATTGTCATTTGTCAGGCTCCTGTACATTTACATAGCATGTTATATTAATAATAAATGT
AAAATATGACTAAAGTTTTCATTGGAAAAAAAAAAAAAA
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FIGURE 904

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MYVSSEHKGRRVTALCWDTAILRVFVGDHAGKVSAIKLNTSKQAKAAAAFVMFPVQTITTVDSCVVQLDYLDGRL
LISSLTRSFLCDTEREKFWKIGNKERDGEYGACFFPGRCSGGQQPLIYCARPGSRMWEVNFDGEVISTHQFKKLL
SLPPLPVITLRSEPQYDHTAGSSQSLSFPKLLHLSEHCVLTWTERGIYIFIPQNVQVLLWSEVKDIQDVAVCRNE
LFCLHLNGKVSHLSLISVERCVERLLRRGLWNLAARTCCLFQNSVIASRARKTLTADKLEHLKSQLDHGTYNDLI
SQMEELILKFEPLDSACSSRRSSISSHESFSILDSGIYRIISSRRGSQSDEDSCSLHSQTLSEDERFKEFTSQQE
EDLPDQCCGSHGNEDNVSHAPVMFETDKNETFLPFGIPLPFRSPSPLVSLQAVKESVSSFVRKTTEKIGTLHTSP
DLKVRPELRGDEQSCEEDVSSDTCPKEEDTEEEKEVTSPPPEEDRFQELKVATAEAMTKLQDPLVLFESESLRMV
LQEWLSHLEKTFAMKDFSGVSDTDNSSMKLNQDVLLVNESKKGILDEDNEKEKRDSLGNEESVDKTACECVRSPR
ESLDDLFQICSPCAIASGLRNDLAELTTLCLELNVLNSKIKSTSGHVDHTLQQYSPEILACQFLKKYFFLLNLKR
AKESIKLSYSNSPSVWDTFIEGLKEMASSNPVYMEMEKGDLPTRLKLLDDEVPFDSPLLVVYATRLYEKFGESAL
RSLIKFFPSILPSDIIQLCHHHPAEFLAYLDSLVKSRPEDQRSSFLESLLQPESLRLDWLLLAVSLDAPPSTSTM
DDEGYPRPHSHLLSWGYSQLILHLIKLPADFITKEKMTDICRSCGFWPGYLILCLELERRREAFTNIVYLNDMSL
MEGDNGWIPETVEEWKLLLHLIQSKSTRPAPQESLNGSLSDGPSPINVENVALLLAKAMGPDRAWSLLQECGLAL
ELSEKFTRTCDILRIAEKRQRALIQSMLEKCDRFLWSQQA
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FIGURE 905

CTCCCTTTGGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGG
ACCAAGCAAAGCC**ATG**ATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTG
GGGGTGGACAATGCTCTGTTGTGATTTCCTGGCACATCATGGAACCGACTGCTGGACTTACCATTATTCTGAAAA
ACCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGC
GGAAATTGAGTATCTGGAGAAGACTCTGCCTTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGG
AATATGGACGTGGGTGGGAACCAACAAATCTCTTACTGAAGAAGCAGAGAACTGGGGAGATGGTGAGCCCAACAA
CAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGC
CTGCCACAAACTAAAGGCAGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATG
TGTAGAAATCATCAATAATTACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGTTTGTGATTCA
GTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCTTTGGGAAACTTCAGCTTCAGCTC
ACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAA
CTGGTCATCTCCAGAACCAACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAA
CTGTAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAAT
TGGGAAGAAGAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAA
AAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTC
TGGGTTGGCATTTATCATTTGGCTGGCAAGGAGATTAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGACCC
ATAT**TAA**ATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAATCCTTCCATGAA
ACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTCCTTCAGTGCATCTGGGAAGATTCTACC
TGACCAACAGTTCCTTCAGCTTCCATTTCGCCCCTCATTTATCCCTCAACCCCCAGCCCACAGGTGTTTATACAG
CTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATG
GCTGACTTTGCTCTTTCTTGACTCTTGTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAGACACTTCTAAAT
GAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTCTTCTGTAT
ACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTTCTAACTCCAGTGAAGTAATG
GGGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAAC
TGGCTTCAGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGA
GTGCCAAGCAAAAGGAGAGAAGAGAGAAATAGCCTGCGCTGTTTTTTAGTTTGGGGGTTTTGCTGTTTCCTTTTA
TGAGACCCATTCCTATTTCTTATAGTCAATGTTTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAAT
GCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAAT
GAAATGCTCTCCTTTCCCCTGCCCCCAGACCTTTTATCCACTTACCTAGATTCTACATATTCTTTAAATTTCATC
TCAGGCCTCCCTCAACCCCACCACTTCTTTTATAACTAGTCCTTTACTAATCCAACCCATGATGAGCTCCTCTTC
CTGGCTTCTTACTGAAAGGTTACCCTGTAACATGCAATTTTGCATTTGAATAAAGCCTGCTTTTTAAGTGTTAA

FIGURE 906

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MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEY
LEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKL
KAALCYTASCQPWSCSGHGECVEIINNYTCNCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHPLGNFSFSSQCAF
SCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKRSMNDPY
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FIGURE 907

GAAAGTCAGTGAGCAAATCGCGGACCACCGGGGCTGCCAGCTCGCCTGACTCCCGGCCTCTTGCGCTCCTAGGGG
CGGAGAAGGGTGCGGGCTCTTCGCCCTTTGTGTCCTCCTTCTTTCACTAACTTCTGGACTTTCCAGCTCTTCCGA
AGTTCGTTCTTGCGCAAAGCCCAAAGGCTGGAAAACCGTCCACG**ATG**ACCAGCATGACTCAGTCTCTGCGGGAGG
TGATAAAGGCCATGACCAAGGCTCGCAATTTTGAGAGAGTTTTGGGAAAGATTACTCTTGTCTCTGCTGCTCCTG
GGAAAGTGATTTGTGAAATGAAAGTAGAAGAAGAGCATACCAATGCAATAGGCACTCTCCACGGCGGTTTGACAG
CCACGTTAGTAGATAACATATCAACAATGGCTCTGCTATGCACGGAAAGGGGAGCACCCGGAGTCAGTGTCGATA
TGAACATAACGTACATGTCACCTGCAAAATTAGGAGAAGATATAGTGATTACAGCACATGTTCTGAAGCAAGGAA
AAACACTTGCATTTACCTCTGTGGATCTGACCAACAAGGCCACAGGAAAATTAATAGCACAAGGAAGACACACAA
AACACCTGGGAAAC**TGA**GAGAACAGCAGAATGACCTAAAGAAACCCAACAATGAATATCAAGTATAGATTTGACT
CAAACAATTGTAATTTTTGAAATAAACTAGCAAAACCAGAAAAAAAAAAAAAAAAAAAA

FIGURE 908

MTSMTQSLREVIKAMTKARNFERVLGKITLVSAAPGKVICEMKVEEEHTNAIGTLHGGLTATLVDNISTMALLCT
ERGAPGVSVDMNITYMSPAKLGEDIVITAHVLKQGKTLAFTSVDLTNKATGKLIAQGRHTKHLGN

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FIGURE 909

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GAATTCCGGTTTCTTCCTAAAAAATGTCTGATGGCCGCTTTCTCGGTCGGCACCGCCATGAATGCCAGCAGTTAC
TCTGCAGAGATGACGGAGCCCAAGTCGGTGTGTGTCTCGGTGGATGAGGTGGTGTCCAGCAACATGGAGGCCACT
GAGACGGACCTGCTGAATGGACATCTGAAAAAAGTAGATAATAACCTCACGGAAGCCCAGCGCTTCTCCTCCTTG
CCTCGGAGGGCAGCTGTGAACATTGAATTCAGGGACCTTTCCTATTCGGTTCCTGAAGGACCCTGGTGGAGGAAG
AAAGGATACAAGACCCTCCTGAAAGGAATTTCCGGGAAGTTCAATAGTGGTGAGTTGGTGGCCATTATGGGTCCT
TCCGGGGCCGGGAAGTCCACGCTGATGAACATCCTGGCTGGATACAGGGAGACGGGCATGAAGGGGGCCGTCCTC
ATCAACGGCCTGCCCCGGGACCTGCGCTGCTTCCGGAAGGTGTCCTGCTACATCATGCAGGATGACATGCTGCTG
CCGCATCTCACTGTGCAGGAGGCCATGATGGTGTCGGCACATCTGAAGCTTCAGGAGAAGGATGAAGGCAGAAGG
GAAATGGTCAAGGAGATACTGACAGCGCTGGGCTTGCTGTCTTGCGCCAACACGCGGACCGGGAGCCTGTCAGGT
GGTCAGCGCAAGCGCCTGGCCATCGCGCTGGAGCTGGTGAACAACCCTCCAGTCATGTTCTTCGATGAGCCCACC
AGCGGCCTGGACAGCGCCTCCTGCTTCCAGGTGGTCTCGCTGATGAAAGGGCTCGCTCAAGGGGGTCGCTCCATC
ATTTGCACCATCCACCAGCCCAGCGCCAAACTCTTCGAGCTGTTCGACCAGCTTTACGTCCTGAGTCAAGGACAA
TGTGTGTACCGGGGAAAAGTCTGCAATCTTGTGCCATATTTGAGGGATTTGGGTCTGAACTGCCCAACCTACCAC
AACCCAGCAGATTTTGTCATGGAGGTTGCATCCGGCGAGTACGGTGATCAGAACAGTCGGCTGGTGAGAGCGGTT
CGGGAGGGCATGTGTGACTCAGACCACAAGAGAGACCTCGGGGGTGATGCCGAGGTGAACCCTTTTCTTTGGCAC
CGCCCCTCTGAAGAGGTAAAGCAGACAAAACGATTAAAGGGGTTGAGAAAGGACTCCTCGTCCATGGAAGGCTGC
CACAGCTTCTCTGCCAGCTGCCTCACGCAGTTCTGCATCCTCTTCAAGAGGACCTTCCTCAGCATCATGAGGGAC
TCGGTCCTGACACACCTGCGCATCACCTCGCACATTGGGATCGGCCTCCTCATTGGCCTGCTGTACTTGGGGATC
GGGAACGAAACCAAGAAGGTCTTGAGCAACTCCGGCTTCCTCTTCTTCTCCATGCTGTTCCTCATGTTCGCGGCC
CTCATGCCTACTGTTCTGACATTTCCCCTGGAGATGGGAGTCTTTCTTCGGGAACACCTGAACTACTGGTACAGC
CTGAAGGCCTACTACCTGGCCAAGACCATGGCAGACGTGCCCTTTCAGATCATGTTCCCAGTGGCCTACTGCAGC
ATCGTGTACTGGATGACGTCGCAGCCGTCCGACGCCGTGCGCTTTGTGCTGTTTGCCGCGCTGGGCACCATGACC
TCCCTGGTGGCACAGTCCCTGGGCCTGCTGATCGGAGCCGCCTCCACGTCCCTGCAGGTGGCCACTTTCGTGGGC
CCAGTGACAGCCATCCCGGTGCTCCTGTTCTCGGGGTTCTTCGTCAGCTTCGACACCATCCCCACGTACCTACAG
TGGATGTCCTACATCTCCTATGTCAGGTATGGGTTCGAAGGGGTCATCCTCTCCATCTATGGCTTAGACCGGGAA
GATCTGCACTGTGACATCGACGAGACGTGCCACTTCCAGAAGTCGGAGGCCATCCTGCGGGAGCTGGACGTGGAA
AATGCCAAGCTGTACCTGGACTTCATCGTACTCGGGATTTTCTTCATCTCCCTCCGCCTCATTGCCTATTGGTC
CTCAGGTACAAAATCCGGGCAGAGAGGTAAAACACCTGAATGCCAGGAAACAGGAAGATTAGACACTGTGGCCGA
GGGCACGTCTAGAATCGAGGAGGCAAGCCTGTGCCCGACCGACGACACAGAGACTCTTCTGATCCAACCCCTAGA
ACCGCGTTGGGTTTGTGGGTGTCTCGTGCTCAGCCACTCTGCCCAGCTGGGTTGGATCTTCTCTCCATTCCCCTT
TCTAGCTTTAACTAGGAAGATGTAGGCAGATTGGTGGTTTTTTTTTTTTTTTAACATACAGAATTTTAAATACC
ACAACTGGGGCAGAATTTAAAGCTGCAACACAGCTGGTGATGAGAGGCTTCCTCAGTCCAGTCGCTCCTTAGCAC
CAGGCACCGTGGGTCCTGGATGGGGAACTGCAAGCAGCCTCTCAGCTGATGGCTGCACAGTCAGATGTCTGGTGG
CAGAGAGTCCGAGCATGGAGCGATTCCATTTTATGACTGTTGTTTTTCACATTTTCATCTTTCTAAGGTGTGTCT
CTTTTCCAATGAGAAGTCATTTTTGCAAGCCAAAGTCGATCAATCGCATTCATTTTAAGAAATTATACCTTTTT
AGTACTTGCTGAAGAATGATTCAGGGTAAATCACATACTTTGTTTAGAGAGGCGAGGGGTTTAACCCGAGTCACC
CAGCTGGTCTCATACATAGACAGCACTTGTGAAGGATTGAATGCAGGTTCCAGGTGGAGGGAAGACGTGGACACC
ATCTCCACTGAGCCATGCAGACATTTTTAAAAGCTATACACAAAATTGTGAGAAGACATTGGCCAACTCTTTCAA
AGTCTTTCTTTTTCCACGTGCTTCTTATTTTAAGCGAAATATATTGTTTGTTTCTTCCTAAAAAAAAAAAAAAAA
AAAAA
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FIGURE 910

MAAFSVGTAMNASSYSAEMTEPKSVCVSVDEVVSSNMEATETDLLNGHLKKVDNNLTEAQRFSSLPRRAAVNIEF
RDLSYSVPEGPWWRKKGYKTLLKGISGKFNSGELVAIMGPSGAGKSTLMNILAGYRETGMKGAVLINGLPRDLRC
FRKVSCYIMQDDMLLPHLTVQEAMMVSAHLKLQEKDEGRREMVKEILTALGLLSCANTRTGSLSGGQRKRLAIAL
ELVNNPPVMFFDEPTSGLDSASCFQVVSLMKGLAQGGRSIICTIHQPSAKLFELFDQLYVLSQGQCVYRGKVCNL
VPYLRDLGLNCPTYHNPADFVMEVASGEYGDQNSRLVRAVREGMCDSDHKRDLGGDAEVNPFLWHRPSEEVKQTK
RLKGLRKDSSSMEGCHSFSASCLTQFCILFKRTFLSIMRDSVLTHLRITSHIGIGLLIGLLYLGIGNETKKVLSN
SGFLFFSMLFLMFAALMPTVLTFPLEMGVFLREHLNYWYSLKAYYLAKTMADVPFQIMFPVAYCSIVYWMTSQPS
DAVRFVLFAALGTMTSLVAQSLGLLIGAASTSLQVATFVGPVTAIPVLLFSGFFVSFDTIPTYLQWMSYISYVRY
GFEGVILSIYGLDREDLHCDIDETCHFQKSEAILRELDVENAKLYLDFIVLGIFFISLRLIAYLVLRYKIRAER

FIGURE 911

TCTGTGGCCGGAGGCTGATCAGTGTTCTAGAACAGATCAGACATTTTGTA**ATG**ATGCCTGAAATAAACACTAACC
ACCTCGACAAGCAACAGGTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAAATGACAATAAAATTGGAG
CTGAGACCAAGAAGAATTGTCACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCT
TATTCAACACCGAAAATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTTTTACGA
ATACGTGTTGTAGTCATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGGAGTGAGGCGAGCAG
CACAGAGACGGCTGAAAGCTGAGCTAGGAATTCCCTTGGAAGAGGTTCCTCCAGAAGAAATTAATTATTTAACAC
GAATTCACTACAAAGCTCAGTCTGATGGTATCTGGGGTGAACATGAAATTGATTACATTTGTTGGTGAGGAAGA
ATGTAACTTTGAATCCAGATCCCAATGAGATTAAAAGCTATTGTTATGTGTCAAAGGAAGAACTAAAAGAACTTC
TGAAAAAAGCAGCCAGTGGTGAAATTAAGATAACGCCATGGTTTAAAATTATTGCAGCGACTTTTCTCTTTAAAT
GGTGGGATAACTTAAATCATTTGAATCAGTTTGTTGACCATGAGAAAATATACAGAATG**TGA**ATATGTAGGTAAA
TGATTACAGAAAAATTTATGTGCTTAACAAACTTAGAATGACTTTTTCCTTTTAAATTTAGTTCTATCATTAATT
TATCATTAAATTTAGTTCTATCATTTGGTACTATCATTAATGTATTATAAAACTTGTGTGGAAAAAACTAACTTA
TAATTTTGTATCACACACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAAATGAGA
GCGAGAAATAAAACTTAATTTAATCTTTGCAGATACATACTTATGGGAAATTTGAACAAATGAGTGAAACTCTGT
TTTTAGTAGGCCGTGATAAACATTTCCGGAGCACTTGCAGAGGACTTGCTATTTGCCAGGTGCTTTATGTATCAT
TAAATTTTTCTCATAGTTCAGAAAAATGTGCAAAGGAAACTATTGTCTCGCTCCTTCAAAACAGTCTTAATTAAC
TTTCATATTAGCAGATTAAACTAGCAGAGCAAGGTTCAAATTAAATGATATGACCCTAATTTGTATCATTCTGAG
TTGATTGTGTGGTTTATTCATTCTGAAACATGTTGATACTTACAGTCACCGACTGCTTTTGATAAGTGATATTGA
TTAGGTTGAATCTTCTTGTAAATAGTATTTACCAGTTAGCAAAGTCTGTGTTTTCAGAATTACAGTGAGCACAGA
GGTGTTCATAAAATGGGAATTGAGTCCCACTCGGTAAGAGTTGCTTAAACTTGACACTGTTGACATTTGGGCTGG
ATAAAACCCCTGTGGTGGGGTCTGTGCTGTGCATTGCAGGATGGTGAGCAGCGTCCCTCTCATGTGACACCCACA
GTTATGCCGGATGTTGCCAGATGCCCCTAGGGACAGAGTCAACCCCCAACTGAGGACCACTGTCTACAGAGTCAG
GAAATATTGTAGGGAGAAAAAAATAACAACAACAAAGGCCTATATTAATGTTAAATAGAGGAGATTATGGAATGT
GTATATTAATGTTAAAAATTATTCCTTATTCAATGTATTTTTATCAAATCGATAGATATCTCAGATTTGAAACTC
AAGACAG

FIGURE 912

MMPEINTNHLDKQQVQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFNTENKLLLQQRSDAK
ITFPGCFTNTCCSHPLSNPAELEESDALGVRRAAQRRLKAELGIPLEEVPPEEINYLTRIHYKAQSDGIWGEHEI
DYILLVRKNVTLNPDPNEIKSYCYVSKEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEKI
YRM

1032/2825
FIGURE 913

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TAATATAGGTACTTTGTCCCTGATTAAATAATGTGACGGATAGAATGCATCAAGTGTTTATTATGAAAAGAGTGG
AAAAGTATATAGCTTTTAGCAAAAGGTGTTTGCCCATTCTAAGAAATGAGCGAATATATAGAAATAGTGTGGGCA
TTTCTTCCTGTTAGGTGGAGTGTATGTGTTGACATTTCTCCCCATCTCTTCCCACTCTGTTTTCTCCCCATTATT
TGAATAAAGTGACTGCTGAAGATGACTTTGAATCCTTATCCACTTAATTTAATGTTTAAAGAAAAACCTGTAATG
GAAAGTGAGACTCCTTCCCTAATTTCAGTTTAGAGCAACTTGAAGAAGAGTAGACAAAAAATAAAATGCACATAG
AAAAAGAGAAAAAGGGCACAAAGGGATTGGCCCAATATTGATTCTTTTTATAAAACCTCCTTTGGCTTAGAAGG
AATGACTCTAGCTACAATAATACACAGTATGTTTAAGCAGGTTCCCTTGGTTGTTGCATTAAATGTAATCCACCT
TTAGGTATTTTAGAGCACAGAACAACACTGTGTTGATCTAGTAGGTTTCTATTTTTCCTTTCTCTTTACAATGCA
CATAATACTTTCCTGTATTTATATCATAACGTGTATAGTGTAAAATGTGAATGACTTTTTTGTGAATGAAAATC
TAAAATCTTTGTAACTTTTTATATCTGCTTTTGTTTCACCAAAGAAACCTAAAATCCTTCTTTTACTACAAAAAA
AAAAAAAAGGGC
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1033/2825
FIGURE 914

NIGTLSLIK

FIGURE 915A

GCTGCCCCGAGCCTTTCTGGGGAAGAACTCCAGGCGTGCGGACGCAACAGCCGAGAACATTAGGTGTTGTGGACA
GGAGCTGGGACCAAGATCTTCGGCCAGCCCCGCATCCTCCCGCATCTTCCAGCACCGTCCCGCACCCTCCGCATC
CTTCCCCGGGCCACCACGCTTCCTATGTGACCCGCCTGGGCAACGCCGAACCCAGTCGCGCAGCGCTGCAGTGAA
TTTTCCCCCCAAACTGCAATAAGCCGCCTTCCAAGGCCAAG**ATG**TTCATAAATATAAAGAGCATCTTATGGATGT
GTTCAACCTTAATAGTAACCCATGCGCTACATAAAGTCAAAGTGGGAAAAAGCCCACCGGTGAGGGGCTCCCTCT
CTGGAAAAGTCAGCCTACCTTGTCATTTTTCAACGATGCCTACTTTGCCACCCAGTTACAACACCAGTGAATTTC
TCCGCATCAAATGGTCTAAGATTGAAGTGGACAAAAATGGAAAGATTTGAAAGAGACTACTGTCCTTGTGGCCC
AAAATGGAAATATCAAGATTGGTCAGGACTACAAAGGGAGAGTGTCTGTGCCCACACATCCCGAGGCTGTGGGCG
ATGCCTCCCTCACTGTGGTCAAGCTGCTGGCAAGTGATGCGGGTCTTTACCGCTGTGACGTCATGTACGGGATTG
AAGACACACAAGACACGGTGTCACTGACTGTGGATGGGGTTGTGTTTCACTACAGGGCGGCAACCAGCAGGTACA
CACTGAATTTTGAGGCTGCTCAGAAGGCTTGTTTGGACGTTGGGGCAGTCATAGCAACTCCAGAGCAGCTCTTTG
CTGCCTATGAAGATGGATTTGAGCAGTGTGACGCAGGCTGGCTGGCTGATCAGACTGTCAGATATCCCATCCGGG
CTCCCAGAGTAGGCTGTTATGGAGATAAGATGGGAAAGGCAGGAGTCAGGACTTATGGATTCCGTTCTCCCCAGG
AAACTTACGATGTGTATTGTTATGTGGATCATCTGGATGGTGATGTGTTCCACCTCACTGTCCCCAGTAAATTCA
CCTTCGAGGAGGCTGCAAAGAGTGTGAAAACCAGGATGCCAGGCTGGCAACAGTGGGGGAACTCCAGGCGGCAT
GGAGGAACGGCTTTGACCAGTGCGATTACGGGTGGCTGTCGGATGCCAGCGTGCGCCACCCTGTGACTGTGGCCA
GGGCCCAGTGTGGAGGTGGTCTACTTGGGGTGAGAACCCTGTATCGTTTTGAGAACCAGACAGGCTTCCCTCCCC
CTGATAGCAGATTTGATGCCTACTGCTTTAAACCTAAAGAGGCTACAACCATCGATTTGAGTATCCTCGCAGAAA
CTGCATCACCCAGTTTATCCAAAGAACCACAAATGGTTTCTGATAGAACTACACCAATCATCCCTTTAGTTGATG
AATTACCTGTCATTCCAACAGAGTTCCCTCCCGTGGGAAATATTGTCAGTTTTGAACAGAAAGCCACAGTCCAAC
CTCAGGCTATCACAGATAGTTTAGCCACCAAATTACCCACACCTACTGGCAGTACCAAGAAGCCCTGGGATATGG
ATGACTACTCACCTTCTGCTTCAGGACCTCTTGGAAAGCTAGACATATCAGAAATTAAGGAAGAAGTGCTCCAGA
GTACAACTGGCGTCTCTCATTATGCTACGGATTCATGGGATGGTGTCGTGGAAGATAAACAAACACAAGAATCGG
TTACACAGATTGAACAAATAGAAGTGGGTCCTTTGGTAACATCTATGGAAATCTTAAAGCACATTCCTTCCAAGG
AATTCCCTGTAACTGAAACACCATTGGTAACTGCAAGAATGATCCTGGAATCCAAAACTGAAAAGAAAATGGTAA
GCACTGTTTCTGAATTGGTAACCACAGGTCACTATGGATTCACCTTGGGAGAAGAGGATGATGAAGACAGAACAC
TTACAGTTGGATCTGATGAGAGCACCTTGATCTTTGACCAAATTCCTGAAGTCATTACGGTGTCAAAGACTTCAG
AAGACACCATCCACACTCATTTAGAAGACTTGGAGTCAGTCTCAGCATCCACAACTGTTTCCCCTTTAATTATGC
CTGATAATAATGGATCATCCATGGATGACTGGGAAGAGAGACAAACTAGTGGTAGGATAACGGAAGAGTTTCTTG
GCAAATATCTGTCTACTACACCTTTTCCATCACAGCATCGTACAGAAATAGAATTGTTTCCTTATTCTGGTGATA
AAATATTAGTAGAGGGAATTTCCACAGTTATTTATCCTTCTCTACAAACAGAAATGACACATAGAAGAGAAAGAA
CAGAAACACTAATACCAGAGATGAGAACAGATACTTATACAGATGAAATACAAGAAGAGATCACTAAAAGTCCAT
TTATGGGAAAAACAGAAGAAGAAGTCTTCTCTGGGATGAAACTCTCTACATCTCTCAGAGCCAATTCATGTTA
CAGAGTCTTCTGTGGAAATGACCAAGTCTTTTGATTTCCCAACATTGATAACAAAGTTAAGTGCAGAGCCAACAG
AAGTAAGAGATATGGAGGAAGACTTTACAGCAACTCCAGGTACTACAAAATATGATGAAAATATTACAACAGTGC
TTTTGGCCCATGGTACTTTAAGTGTTGAAGCAGCCACTGTATCAAAATGGTCATGGGATGAAGATAATACAACAT
CCAAGCCTTTAGAGTCTACAGAACCTTCAGCCTCTTCAAAATTGCCCCCTGCCTTACTCACAACTGTGGGGATGA
ATGGAAAGGATAAAGACATCCCAAGTTTCACTGAAGATGGAGCAGATGAATTTACTCTTATTCCAGATAGTACTC
AAAAGCAGTTAGAGGAGGTTACTGATGAAGACATAGCAGCCCATGGAAAATTCACAATTAGATTTCAGCCAACTA
CATCAACTGGTATTGCAGAAAAGTCAACTTTGAGAGATTCTACAACTGAAGAAAAGTTCCACCTATCACAAGCA
CTGAAGGCCAAGTTTATGCAACCATGGAAGGAAGTGCTTTGGGTGAAGTAGAAGATGTGGACCTCTCTAAGCCAG
TATCTACTGTTCCCCAATTTGCACACACTTCAGAGGTGGAAGGATTAGCATTGTTAGTTATAGTAGCACCCAAG
AGCCTACTACTTATGTAGACTCTTCCCATACCATTCCTCTTTCTGTAATTCCCAAGACAGACTGGGGAGTGTTAG
TACCTTCTGTTCCATCAGAAGATGAAGTTCTAGGTGAACCCTCTCAAGACATACTTGTCATTGATCAGACTCGCC
TTGAAGCGACTATTTCTCCAGAAACTATGAGAACAACAAAAATCACAGAGGGAACAACTCAGGAAGAATTCCCTT
GGAAAGAACAGACTGCAGAGAAACCAGTTCCTGCTCTCAGTTCTACAGCTTGGACTCCCAAGGAGGCAGTAACAC
CACTGGATGAACAAGAGGGCGATGGATCAGCATATACAGTCTCTGAAGATGAATTGTTGACAGGTTCTGAGAGGG
TCCCAGTTTTAGAAACAACTCCAGTTGGAAAAATTGATCACAGTGTGTCTTATCCACCAGGTGCTGTAACTGAGC